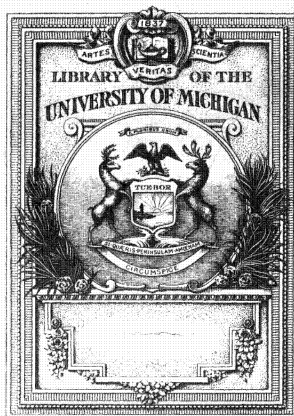
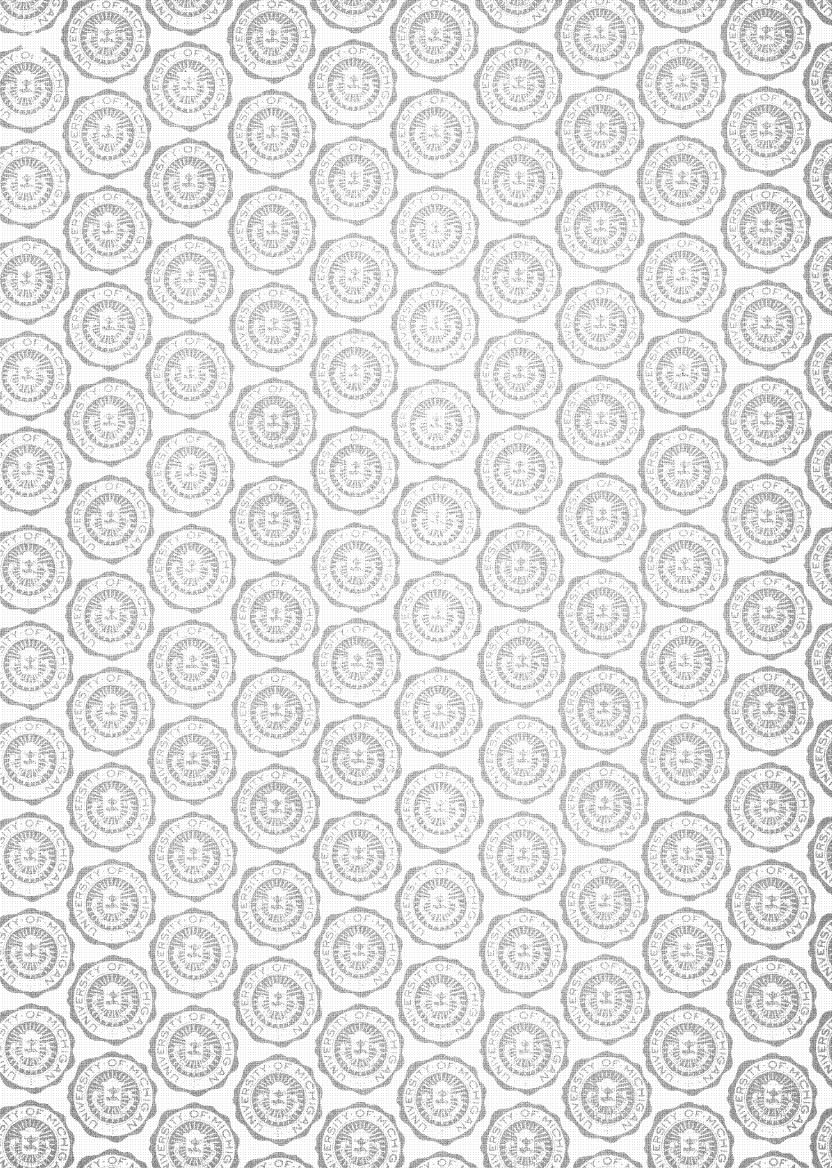


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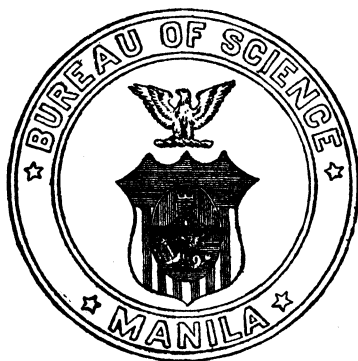
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DAVID STARR JORDAN

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ROBERT EARL RICHARDSON



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CHECK-LIST OF THE SPECIES OF FISHES KNOWN FROM THE PHILIPPINE ARCHIPELAGO.

By DAVID STARR JORDAN and ROBERT EARL RICHARDSON.

In the present paper is given a list of all species of fishes positively known at the date of January 1, 1909, as inhabiting the waters of the Philippine Archipelago. A complete bibliography of the ichthyology of the Philippines is given in the Appendix.

The writers are indebted to Mr. Alvin Seale and to Mr. Richard Crittenden McGregor for important aid on the preliminary work of the preparation of this catalogue; 830 species are included, a large number, which probably represents less than half of the actual fish fauna of these Islands.

INTRODUCTION.

The list has been drawn up without reference to the lists of Elera, Gogorza, and Palacky (noted in the bibliography). A list of those species of Palacky's catalogue which are known on no other authority than that of Palacky, Elera, or Gogorza, is appended at the conclusion of the present check-list. In the present list the full reference to the original description is given in case only of those species not noticed or described in Günther's Catalogue of the Fishes of the British Museum. In the record of geographical distribution which follows the name of each species admitted to the check-list, the name by which the species was designated by an author is given only in case the *specific* name used was different from the one here employed.

Class SELACHII.

Family ORECTOLOBIDÆ.

CHILOSCYLLIUM Müller & Henle.

1. *Chiloscyllium indicum* (Gmelin). Manila (Günther, A).

Family CARCHARIIDÆ.

SCOLIODON Müller & Henle.

2. *Scoliodon walbeehmii* (Bleeker). Manila (Jordan & Richardson).
3. *Scoliodon acutus* (Rüppell). Manila (Jordan & Seale, A).

Family SPHYRNIDÆ.

SPHYRNA Rafinesque.

4. *Sphyrna zygaena* (Linnæus). Cavite (Jordan & Seale, A).

Family RHINOBATIDÆ.

RHYNCHOBATUS Müller & Henle.

5. *Rhynchobatus djiddensis* (Forskål). Cavite (Jordan & Seale, A).

Family DASYATIDÆ.

DASYATIS Rafinesque.

6. *Dasyatis kuhli* (Müller & Henle). Philippine Islands (Jordan & Seale, A);
Zamboanga (Seale & Bean).

HIMANTURA Duméril.

7. *Himantura uarnak* (Forskål). Manila (Jordan & Richardson).

TÆNIURA Müller & Henle.

8. *Tæniura lymma* (Forskål). Zamboanga (Seale & Bean).

Family AËTOBATIDÆ.

STOASODON Cantor.

9. *Stoasodon narinari* (Euphrasen). Cavite (Jordan & Seale, A).

Class PISCES.

Family ELOPIDÆ.

ELOPS Linnæus.

10. *Elops hawaliensis* Regan. Manila (Jordan & Richardson); Bulan (Evermann & Seale, A) (as *E. saurus*).

Family MEGALOPIDÆ.

MEGALOPS Lacépède.

11. *Megalops cyprinoides* (Broussonet). Luzon (Peters, c); Negros (Jordan & Seale, B); Bulan (Evermann & Seale, A).

Family CHIROCENTRIDÆ.

CHIROCENTRUS Cuvier.

12. *Chirocentrus dorab* (Forskål). Cavite (Jordan & Seale, A); Manila (Jordan & Richardson); Mindanao (Smith & Seale); Bacon (Evermann & Seale, A).

Family CHANIDÆ.

CHANOS Cuvier.

13. *Chanos chanos* (Forskål). Cavite (Jordan & Seale, A); Manila (Jordan & Richardson); Manila (Evermann & Seale, B). Zamboanga, Seale & Bean.

Family CLUPEIDÆ.

STOLEPHORUS Lacépède. (*Spratelloides* Bleeker.)

14. *Stolephorus gracilis* (Temminck & Schlegel). Bacon (Evermann & Seale, A); (?) Negros (Jordan & Seale, B, *Stolephorus japonicus*; see note in Evermann & Seale, A).
15. *Stolephorus delicatulus* (Bennett). Bulan (Evermann & Seale, A).

DUSSUMIERIA Cuvier & Valenciennes.

16. *Dussumieria acuta* Cuvier & Valenciennes. Manila (Kner).
17. *Dussumieria elopsoides* Bleeker. Cavite (Jordan & Seale, A); Iloilo (Jordan & Richardson).
18. *Dussumieria hasseltii* Bleeker. Manila (Jordan & Richardson).

AMBLYGASTER Bleeker. (*Sardinia* Poey.)

19. *Amblygaster sirm* (Rüppell). Negros (Jordan & Seale, B).
20. *Amblygaster clupeioides* (Bleeker). Negros (Jordan & Seale, B); Bulan (Evermann & Seale, A).
21. *Amblygaster perforatum* (Cantor). Bacon (Evermann & Seale, A).

SARDINELLA Cuvier & Valenciennes. (*Harengula* Cuv. & Val).

22. *Sardinella moluccensis* (Bleeker). Cavite (Jordan & Seale, A); Negros (Jordan & Seale, B); Manila (Jordan & Richardson); Bacon; Bulan (Evermann & Seale, A); Zamboanga, Seale & Bean.
23. *Sardinella gibbosa* (Bleeker). Philippine Islands (Jordan & Seale, A); Manila (Jordan & Richardson).
24. *Sardinella sundaica* (Bleeker). Negros (Jordan & Seale, B); Manila; Aparri; Iloilo (Jordan & Richardson).
25. *Sardinella vanicoris* Jordan & Seale. Zamboanga (Seale & Bean) as *Clupea melanura*, not of Cuvier.

ILISHA Gray.

26. *Ilisha hoevenii* (Bleeker). Cavite (Jordan & Seale, A); Manila (Jordan & Richardson); San Fabian (Evermann & Seale, A).

Family DOROSOMATIDÆ.

ANODONTOSTOMA Bleeker.

27. *Anodontostoma chacunda* (Hamilton-Buchanan). Cavite (Jordan & Seale, A, var. *selangkai*); Negros (Jordan & Seale, B); Manila; Iloilo (Jordan & Richardson); Mindanao (Smith & Seale); Bacon (Evermann & Seale, A).

KONOSIRUS Jordan & Snyder.

28. *Konosirus thrissa* (Osbeck). Philippine Islands (Günther, Evermann & Seale, A); Zamboanga (Seale & Bean). (*Dorosoma nasus* (Bloch).)

Family ENGRAULIDÆ.

ANCHOVIA Jordan & Evermann.

29. *Anchovia commersoniana* (Lacépède). Manila (Jordan & Seale, A); Negros (Jordan & Seale, B).
30. *Anchovia hamiltoni* (Gray). Cavite (Jordan & Seale, A); Manila; Iloilo (Jordan & Richardson).
31. *Anchovia boelama* (Forskål). Cagayancillo; Iloilo (Jordan & Richardson); Mindanao (Smith & Seale). Zamboanga (Seale & Bean).
32. *Anchovia indica* (Van Hasselt). Cavite (Jordan & Seale, A); Buluan (Evermann & Seale, A).
33. *Anchovia setirostris* (Broussonet). Aparri (Jordan & Richardson).

Family SYNODONTIDÆ.

TRACHINOCEPHALUS Gill.

34. *Trachinocephalus myops* (Forster). Buluan (Evermann & Seale, A).

SYNODUS Gronow.

35. *Synodus japonicus* (Houttuyn). Cuyo (Jordan & Richardson); Buluan; Bacon (Evermann & Seale, A, *Synodus varius*).

SAURIDA Cuvier & Valenciennes.

36. *Saurida gracilis* (Quoy & Gaimard). Manila (Jordan & Seale, A); Cuyo (Jordan & Richardson); Bacon (Evermann & Seale, A).
37. *Saurida argyrophanes* Richardson. Cavite (Jordan & Seale, A, *Saurida japonica*); Manila (Jordan & Richardson); San Fabian (Evermann & Seale, A).
38. *Saurida badi* (Cuvier). Negros (Jordan & Seale, B).

Family ALEPOCEPHALIDÆ.

BATHYTROCTES Günther.

39. *Bathytroctes macrolepis* Günther. Sta. 198, north of Celebes (Günther, B). (*Bathytroctes macrolepis* Günther, Deep Sea Fishes Challenger, p. 225, pl. LVII, fig. B; Sta. 198, north of Celebes.)

Family MALACOSTEIDÆ.

MALACOSTEUS Ayres.

40. *Malacosteus indicus* Günther. Sta. 214, near Philippine Islands (Günther, B). *Malacosteus indicus* Günther, Ann. Mag. N. H., II, 1878, 181.

Family MYCTOPHIDÆ.

MYCTOPHUM Rafinesque.

41. *Myctophum gilberti* Evermann & Seale. Bulan (Evermann & Seale, A). *Myctophum gilberti* Evermann & Seale, Bull. U. S. Fish Comm., XXVI, 1906, 55, fig. 1; Bulan, P. I.

LAMPADENA Goode & Bean.

42. *Lampadena engraulis* (Günther). Sta. 200, Philippine Islands (Günther, B).
Scopelus engraulis Günther, Deep Sea Fishes Challenger, p. 197, pl. LI, fig. C; Sta. 200, Philippine Islands.

NANNOBRACHIUM Günther.

43. *Nannobranchium nigrum* Günther. Sta. 214, south of Philippines. (Günther, B).
Nannobranchium nigrum Günther, Deep Sea Fishes Challenger, p. 199, pl. LII, fig. B; Sta. 214, south of Philippines.

Family STERNOPTYCHIDÆ.

POLYIPNUS Günther.

44. *Polyipnus spinosus* Günther. Sta. 200, between Philippine Islands and Borneo (Günther, B).
Polyipnus spinosus Günther. Deep Sea Fishes Challenger, p. 170; Sta. 200, between Philippine Islands and Borneo.

STERNOPTYX Hermann.

45. *Sternoptyx diaphana* Hermann. Sta. 214, Philippine Islands (Günther, B).

Family EVERMANELLIDÆ.

OMOSUDIS Günther.

46. *Omosudis lowii* Günther. Sta. 214, south of Philippine Islands (Günther, B).
Omosudis lowii Günther, Deep Sea Fishes Challenger, p. 201, pl. LII, fig. C. C'; Sta. 214, south of Philippine Islands.

Family HALOSAURIDÆ.

HALOSAURUS Johnson.

47. *Halosaurus medirostris* Günther. Sta. 207, west of Philippine Islands (Günther, B).
Halosaurus medirostris Günther, Deep Sea Fishes Challenger, p. 239, pl. LIX, fig. C; Sta. 207, west of Philippines.

Family SYMBRANCHIDÆ.

SYMBRANCHUS Bloch.

48. *Symbranchus bengalensis* (McClelland). Philippine Islands (Günther); Luzon (Peters, C).

Family ANGUILLIDÆ.

ANGUILLA Thunberg.

49. *Anguilla mauritiana* Bennett. Philippine Islands (Günther); Tarlac (Evermann & Seale, A); Calayan; Mindoro (Jordan & Richardson); Manila (Bleeker, as *Muraena maculata*); Zamboanga (Seale & Bean).
50. *Anguilla manillensis* (Bleeker). Manila (Bleeker). May not be different from *Anguilla mauritiana*.

Family LEPTOCEPHALIDÆ.

LEPTOCEPHALUS Gmelin.

51. *Leptocephalus brevicaudus* Peters.

A species of uncertain standing, *Leptocephalus* (*Diaphanichthys*) *brevicaudus* Peters, Monatsber. Akad. Wiss. Berl., 1868, 275; Masbate, Luzon; a larva form of some conger eel.

UROCONGER Kaup.

52. *Uroconger lepturus* Richardson. Manila (Jordan & Seale, A).

Family MURÆNESOCIDÆ.

MURÆNESOX McClelland.

53. *Murænesox cinereus* (Forskål). Philippine Islands (Günther; Richardson, A, (*Congrus hamo*); = *Murænesox bagio* fide Bleeker = *cinereus*) Manila (Jordan & Seale, A; Jordan & Richardson).

Family MYRIDÆ.

MURÆNICHTHYS Bleeker.

54. *Murænichthys gymnopterus* (Bleeker). Cavite (Jordan & Seale, A).
55. *Murænichthys macropterus* Bleeker. Negros (Jordan & Seale, B).
56. *Murænichthys thompsoni* Jordan & Richardson. Manila Bay (Jordan & Richardson).
Murænichthys thompsoni Jordan & Richardson, Bull. U. S. Bur. Fish., XXVII, 237, 1908. *Manila Bay*.

Family OPHICHTHYIDÆ.

OPHICHTHUS Ahl.

57. *Ophichthus cephalozonus* Bleeker. Philippine Islands (Günther).
58. *Ophichthus grandoculis* (Cantor). Manila (Jordan & Richardson).

CIRRHIMURÆNA Kaup.

This genus may be provisionally recognized for those ophichthyid eels which have the maxillary teeth in bands, the lips fringed, and the dorsal inserted over or behind the gill-opening.

59. **Cirrhimuræna tapeinoptera** (Bleeker). Cavite (Jordan & Seale, A); Manila (Jordan & Richardson).
 60. **Cirrhimuræna nectura** (Jordan & Seale) Cavite (Jordan & Seale, A).
*Jenkinsiella*¹ *nectura* Jordan & Seale, Bull. U. S. Fish. Comm., XXVI, 1906, 6, fig. 1; Cavite, P. I.

PISOODONOPHIS Kaup.

61. **Pisoodonophis cancrivorus** (Richardson). Philippine Islands (Günther; Richardson, A); Manila; Cuyo (Jordan & Richardson).
 62. **Pisoodonophis macgregori** Jordan & Richardson. Manila (Jordan & Richardson).
Pisoodonophis macgregori Jordan & Richardson, Bull. U. S. Bur. Fish., XXVII, 238, 1908. Manila, P. I.

LEIURANUS Bleeker.

63. **Leiuranus lithinus** Jordan & Richardson. Cuyo (Jordan & Richardson).
Leiuranus lithinus Jordan & Richardson, Bull. U. S. Bur. Fish., XXVII, 239, 1908. Cuyo, P. I.

CŒCULA Vahl. (*Dalophis* Rafinesque.)

64. **Cœcula mindora** Jordan & Richardson. Mindoro (Jordan & Richardson).
Cœcula mindora Jordan & Richardson, Bull. U. S. Bur. Fish., XXVII, 239, 1908. Mindoro, P. I.

Family MORINGUIDÆ.

MORINGUA Gray. (*Aphthalmichthys* Kaup.)

65. **Moringua abbreviata** (Bleeker). Negros (Jordan & Seale, B); Ticao (Jordan & Richardson).
 66. **Moringua lumbricoidea** Richardson. Negros (Jordan & Seale, B).
 67. **Moringua macrocephala** (Bleeker). Luzon (Peters, C).

¹ *Microdonophis macgregori* Jenkins (Bull. U. S. Fish. Comm. XXII, 1902, p. 422), the type of *Jenkinsiella* Jordan & Evermann, with lips fringed, maxillary teeth uniserial (fide Jenkins), and dorsal inserted far in advance of gill-openings seems to be congeneric with *Ophichthys* (*Cirrhimuræna*) *calamus* Günther, from Australia. The original description of *Cirrhimuræna* (*Jenkinsiella*) *nectura* (Jordan & Seale) erroneously states that the maxillary teeth are in a single series. A reëxamination of the type proves that they are in broad bands. Of the four species included by Dr. Günther in the subdivision *Cirrhimuræna*, one, *Ophichthys playfairii* Günther, from Zanzibar, with the teeth in bands, the lips fringed, and dorsal commencing "a short distance behind angle of mouth," appears to be intermediate between *Jenkinsiella* (*macgregori*) and *Cirrhimuræna* as above defined.

Family MURÆNIDÆ.

GYMNOTHORAX Bloch.

68. *Gymnothorax punctatofasciatus* Bleeker. Negros (Jordan & Seale, B).
69. *Gymnothorax polyuranodon* Bleeker. Palawan (Boulenger, A.).
70. *Gymnothorax petelli* (Bleeker). Calayan (Jordan & Richardson).
Muraena petelli Bleeker, Nat. Tijds., XI, 84, Java.—Günther, Cat. VIII, 1870, 105.
Gymnothorax petelli Bleeker, Atlas, Muræn., 99, tab. XXXII, fig. 1.—
 Jordan & Seale, Bull. U. S. Fish Comm., XXV, 1905, 197; Samoa.
Muraena interrupta Kaup, Apodes, 67, fig. 51, 1854; Red Sea.
Gymnothorax leucacme Jenkins, Bull. U. S. Fish Comm., XXII, 1902, 427,
 fig. 7. Honolulu.
Gymnothorax waialua Snyder, Bull. U. S. Fish Comm., XXII, 1902, 520,
 pl. 6; Waialua, near Honolulu.
71. *Gymnothorax richardsoni* (Bleeker). Reefs near Cebu (Günther, A); San
 Fabian (Evermann & Seale, A); Sibuyan (Jordan & Richardson).
Muraena richardsoni Bleeker, Nat. Tijds., III, 1852, 296; Wahai, Ceram,
 Padang, Sumatra.
Gymnothorax richardsoni Bleeker, Atlas Muræn. 100, pl. XLII, fig. 2.
Gymnothorax scoliodon Bleeker, l. c., 101, pl. XL, fig. 2.
Gymnothorax ceramensis Bleeker, Ned. Tijds. Dierk., I, 261 Ceram.—Atlas.
 Muræn., 101, pl. XXXIII, fig. 3.
 (?) *Muraenopsis lineatus* Lesson, Voy. Coquille, 1830, 127, pl. II, fig. I;
 Oualan. (Figure very poor; probably not the same species.)
72. *Gymnothorax flavomarginatus* (Rüppell). Calayan (Jordan & Richardson).
73. *Gymnothorax philippinus* Jordan & Seale. Cavite (Jordan & Seale, A).
Gymnothorax philippinus Jordan & Seale, Bull. U. S. Fish Comm., XXVI,
 1906, 7, fig. 2; Cavite, P. I.
74. *Gymnothorax afer* Bloch. Bacon (Evermann & Seale, A).
75. *Gymnothorax litus* (Richardson). Cuyo; Cagayancillo (Jordan & Richardson).
76. *Gymnothorax pictus* (Ahl). Samar (Peters, C); Negros (Jordan & Seale,
 B); Cagayancillo; Ticao (Jordan & Richardson).
77. *Gymnothorax undulatus* (Lacépède). Manila (Kner, *Gymnothorax cancel-
 latus*).
78. *Gymnothorax tile* (Hamilton-Buchanan). Luzon (Peters, C).
79. *Gymnothorax fimbriatus* (Bennett) (*G. isingleenoides* Bleeker) Zamboanga
 (Seale & Bean).

ECHIDNA Forster.

80. *Echidna nebulosa* (Ahl). Reefs of Cebu (Günther, A); Negros (Jordan &
 Seale, B); Calayan (Jordan & Richardson).
81. *Echidna delicatula* (Kaup). Negros (Jordan & Seale, B).
82. *Echidna polyzona* (Richardson). Calayan (Jordan & Richardson).
Muraena polyzona Richardson, Voy. Sulphur, Ichth., III, 1845, 112, pl. 55,
 fig. 11-14; no loc.
Echidna zonophæa Jordan & Evermann, Bull. U. S. Fish Comm., XXII,
 1902, 167; l. c. XXIII, pt. I, 1903, 109, pl. 21; Hawaii.
Echidna vineta Jenkins, Bull. U. S. Fish Comm., XXII, 1902, 429; Hawaii.
Echidna obscura Jenkins, Bull. U. S. Fish Comm., XXII, 1902, 430, fig.
 11; Honolulu.

Echidna psalion Jenkins, Bull. U. S. Fish Comm., XXII, 1902, 431, fig. 12; Honolulu.

(?) *Echidna leihala* Jenkins, Bull. U. S. Fish Comm., XXII, 1902, 428, fig. 9. Honolulu.

(?) *Pœcilophis tritor* Vaillant & Sauvage, Rev. et Mag. Zool. (3). III 287, 1875; Hawaii.

UROPTERYGIUS Rüppell.

83. *Uropterygius concolor* Rüppell. Negros (Jordan & Seale, B).

Family CYPRINIDÆ.

BARBODES Bleeker.

83. (84). *Barbodes quinquemaculatus* (Seale & Bean). Zamboanga (Günther,) Mount Malindang, Zamboanga (Seale & Bean). (*Barbodes maculatus* var. A. Günther.)
85. *Barbodes palawanensis* Boulenger. Palawan (Boulenger, A).
Barbus palawanensis Boulenger, Ann. Mag. N. H. (6) XV, 1895, 186; Palawan, P. I.
86. *Barbodes hemictenus* Jordan & Richardson. Mindoro (Jordan & Richardson).
Barbodes hemictenus Jordan & Richardson, Bull. U. S. Bur. Fish. XXVII, 242, 1908. Mindoro, P. I.

RASBORA Bleeker.

87. *Rasbora philippina* Günther. Pasananca, near Zamboanga (Günther, A).
Rasbora philippina Günther, Shore Fishes Challenger, p. 54; River at Pasananca, near Zamboanga, P. I.
88. *Rasbora punctulata* Seale & Bean, Zamboanga. (Seale & Bean).
89. *Rasbora everetti* Boulenger. Palawan (Boulenger, A).
Rasbora everetti Boulenger, Ann. Mag. N. H. (6) XV, 1895, 187; Palawan, P. I.

NEMATABRAMIS Boulenger.

90. *Nematabramis everetti* Boulenger. Palawan (Boulenger, A).
Nematabramis everetti Boulenger, Ann. Mag. N. H. (6) XV, 1895, 187; Palawan, P. I.
91. *Nematabramis alestes* (Seale & Bean). *Mcarnsiella alestes*¹ (Seale & Bean). Zamboanga (Seale & Bean).

DANGILA Cuvier & Valenciennes.

92. *Dangila philippina* Heckel. Philippine Islands (Heckel, A).
Cyrene philippina Heckel, Russegger's Reisen, I, 1025; *Philippine Islands*.
93. *Dangila cyanopareia* Heckel. Philippine Islands (Heckel, A).
Cyrene cyanopareia Heckel, Russegger's Reisen, I, 1025; *Philippine Islands*.

¹ According to Mr. Seale, *Mcarnsiella alestes* is probably a species of *Nematabramis*.

Family SILURIDÆ.

NETUMA Bleeker.

94. *Netuma nasuta* (Bleeker). Cavite (Jordan & Seale, A).
95. *Netuma thalassina* (Rüppell). Philippines (Jordan & Richardson); San Fabian; Bulan (Evermann & Seale, A).

TACHYSURUS Lacépède. (*Arius* Cuv. & Val.)¹

96. *Tachysurus venosus* (Cuvier & Valenciennes). Manila (Cuvier & Valenciennes, after figure of Mertens).

RITA Bleeker.

97. *Rita manillensis* (Cuvier & Valenciennes). Manila (Cuvier & Valenciennes, XV, 93).

HEMIPIMELODUS Bleeker.

98. *Hemipimelodus manillensis* (Cuvier & Valenciennes). Manila (Cuvier & Valenciennes, XV, 192).

Family CLARIIDÆ.

CLARIAS Gronow.

99. *Clarias magur* (Hamilton-Buchanan). Philippines, Jordan & Seale, A).
100. *Clarias batrachus* (Bloch). Luzon; Samar (Peters, C). (*Clarias fuscus* Auct.)
101. *Clarias nieuhofii* Cuvier & Valenciennes. Philippine Islands (Günther); Luzon (Peters, C).
102. *Clarias gilli* Smith & Seale. Mindanao (Smith & Seale).
Clarias gilli Smith & Seale, Proc. Biol. Soc. Wash., XIX, 1906, 74, fig. a, b; *Rio Grande, Mindanao, P. I.*

Family PLOTOSIDÆ.

PLOTOSUS Lacépède.

103. *Plotosus anguillaris* (Bloch). Philippine Islands (Günther); Manila (Jordan & Seale, A); Cuyo (Jordan & Richardson); Jolo; Bacon (Evermann & Seale, A). Zamboanga (Seale and Bean).

Family BELONIDÆ.

TYLOSURUS Cocco.

104. *Tylosurus giganteus* (Temminck & Schlegel). Cavite (Jordan & Seale, A); Negros (Jordan & Seale, B); Manila; Iloilo (Jordan & Richardson); Bacon (Evermann & Seale, A).
105. *Tylosurus leiurus* (Bleeker). Cavite (Jordan & Seale, A); Aparri (Jordan & Richardson). Zamboanga (Seale & Bean).

¹ It is perhaps not certain that *Tachysurus chinensis* is a species of this genus, as the description of Lacépède, based on a Chinese painting, is not surely identifiable.

106. *Tylosurus leiuroides* (Bleeker). Bacon (Evermann & Seale, A). Zamboanga (Seale & Bean).
 107. *Tylosurus caudimaculatus* (Cuvier). Iloilo (Jordan & Richardson).

Family EXOCETIDÆ.

HEMIRAMPHUS Cuvier.

108. *Hemiramphus quoyi* (Cuvier & Valenciennes). Cavite (Jordan & Seale, A); Bacon (Evermann & Seale, A); Manila (Evermann & Seale, B).
 109. *Hemiramphus limbatus* Cuvier & Valenciennes. Cuyo (Jordan & Richardson).
 110. *Hemiramphus dussumieri* (Cuvier & Valenciennes). Bacon; Bulan (Evermann & Seale, A).
 111. *Hemiramphus neglectus* Bleeker. Aparri (Jordan & Richardson).
 112. *Hemiramphus marginatus* (Forskål). Bacon (Evermann & Seale, A); Manila (Jordan & Richardson).
 113. *Hemiramphus lutkei* Cuvier & Valenciennes. Manila (Cuvier & Valenciennes, record based on figure of Mertens). Made a synonym of *Hemiramphus marginatus* by Dr. Günther.
 114. *Hemiramphus cantor* Bleeker. Cavite (Jordan & Seale).
 115. *Hemiramphus cotnog* Smith. Luzon (Smith). *Hemiramphus cotnog*, Smith, Bull. U. S. Fish Comm., XXI, 1902, 170, fig.; *L. Buhí*, Luzon, P. I.

ZENARCHOPTERUS Gill.

116. *Zenarchopterus philippinus* Peters. Luzon; Samar (Peters, C); Bacon (Evermann & Seale, A). Zamboanga (Seale & Bean).
Hemiramphus (*Zenarchopterus*) *philippinus* Peters, Monatsber. Akad. Wiss. Berl., 1868, 273; *Luzon* and *Samar*.
 117. *Zenarchopterus dispar* (Cuvier & Valenciennes). Cavite (Jordan & Seale, A); Bacon (Evermann & Seale, A). Zamboanga (Seale & Bean).

DERMATOGENYS Van Hasselt.

118. *Dermatogenys viviparus* Peters. Luzon; Samar (Peters, A).
Hemiramphus (*Dermatogenys*) *viviparus* Peters, Monatsber. Akad. Wiss. Berl., 1865, 132; *Samar*, P. I.

PAREXOCETUS Bleeker.

119. *Parexocetus mento* (Cuvier & Valenciennes). Manila (Jordan & Richardson); Cavite (Jordan & Seale, A).

CYPSELURUS¹ Swainson.

120. *Cypselurus simus* (Cuvier & Valenciennes). Bacon; Bulan (Evermann & Seale, A).
 121. *Cypselurus spilonopterus* (Bleeker). Negros (Jordan & Richardson) (*Exocetus bahiensis* Bleeker, probably not of Ranzani).
 122. *Cypselurus brachysomus* (Bleeker). Cavite (Jordan & Seale, A).
 123. *Cypselurus altipinnis* (Cuv. & Val.) Zamboanga (Seale & Bean).

¹ *Cypselurus* Swainson is plainly an error of transcription.

Family ATHERINIDÆ.

ATHERINA Linnæus.

124. *Atherina lacunosa* Forster. Iloilo (Jordan & Richardson); Bacon (Jordan & Seale, A). Zamboanga (Seale & Bean) (dark lateral band; no dark on pectoral). (It is not certain what the original of *Atherina lacunosa* really is.)
125. *Atherina temminckii* (Bleeker). Negros (Jordan & Seale, B); Bulan; Bacon (Evermann & Seale, A).
126. *Atherina forskalii* Rüppell. Bulan; Bacon (Evermann & Seale, A).
127. *Atherina lineata* Günther. Cebu (Günther, C).
Atherina lineata Günther, Ann. Mag. Nat. Hist., 1872, 398; *Cebu*, P. I.
128. *Atherina panatela* Jordan & Richardson. Calayan (Jordan & Richardson).
Atherina panatela Jordan & Richardson, Bull U. S. Bur. Fish., XXVII, 244, 1908. *Calayan*, P. I.

Family MUGILIDÆ.

MUGIL Linnæus.

129. *Mugil cephalus* Linnæus. Calayan (Jordan & Richardson). Manila, Kner (*Mugil cephalotus*).
130. *Mugil planiceps* Cuvier & Valenciennes. Bulan (Evermann & Seale, A).
131. *Mugil sundanensis* Bleeker. Cavite (Jordan & Seale, A); Bacon (Evermann & Seale, A); Manila (Evermann & Seale, B).
132. *Mugil kelaartii* Günther. Philippine Islands (Günther); Luzon (Peters, C).
133. *Mugil longimanus* Günther. Cavite (Jordan & Seale, A).

LIZA Jordan & Swain.

134. *Liza amarula* (Cuvier & Valenciennes). Cavite (Jordan & Seale, A). Zamboanga. (Seale & Bean).
135. *Liza waigiensis* (Quoy & Gaimard). Cavite (Jordan & Seale, A). Zamboanga (Seale & Bean).
136. *Liza oligolepis* (Bleeker). Iloilo (Jordan & Richardson).
137. *Liza troscheli* (Bleeker). Cavite (Jordan & Seale, A); Iloilo (Jordan & Richardson); Manila (Evermann & Seale, A); Mindanao (Smith & Seale). Zamboanga (Seale & Bean).

ÆSCHRICHTHYS Macleay.

138. *Æschrichthys goldiei* Macleay. Mindoro (Jordan & Richardson).
Æschrichthys goldiei Macleay,, Proc. Linn. Soc. N. S. Wales, 1883, 5, fig. 1 & 2; *Goldie R., New Guinea*.

Family SPHYRÆNIDÆ.

SPHYRÆNA Linnæus.

139. *Sphyræna obtusata* Cuvier & Valenciennes. Cavite (Jordan & Seale, A); Bulan (Evermann & Seale, A); Mindanao (Smith & Seale). Zamboanga (Seale & Bean).
140. *Sphyræna jello* Cuvier & Valenciennes. Manila (Jordan & Seale, A); Negros (Jordan & Seale, B) Iloilo (Jordan & Richardson); Bacon; Bulan (Evermann & Seale, A).

141. *Sphyræna langsar* Bleeker. Bulan; Bacon; San Fabian (Evermann & Seale, A).
 142. *Sphyræna snodgrassi* Jenkins. Aparri (Jordan & Richardson). (Identification doubtful, probably *Sphyræna commersoni*.)
Sphyræna snodgrassi Jenkins, Bull. U. S. Fish Comm., XIX, 1899, 388, fig. 2; Honolulu, H. I.

Family POLYNEMIDÆ.

POLYDACTYLUS Lacépède.

143. *Polydactylus plebeius* (Broussonet). Zamboanga (Seale & Bean).
 144. *Polydactylus zophomus* Jordan & Seale. Cavite (Jordan & Seale, A); Manila; Iloilo (Jordan & Richardson).
Polydactylus zophomus Jordan & Seale, Bull. U. S. Fish Comm., XXVI, 1906, 11, fig. 4; Cavite, Luzon, P. I.
 145. *Polydactylus sealei* Jordan & Richardson, new specific name. (*Polydactylus opercularis* Seale & Bean, Proc. U. S. N. M., 1907, 234, not of Gill.) Zamboanga (Seale & Bean).

ELEUTHERONEMA Bleeker.

146. *Eleutheronema tetradactylum* (Shaw). Manila (Jordan & Richardson).

Family AULOSTOMIDÆ.

AULOSTOMUS Cuvier.

147. *Aulostomus chinensis* (Linnæus). Philippine Islands (Lacépède, fide Commerson).
 (*Aulostoma valentini* Bleeker.)

Family FISTULARIIDÆ.

FISTULARIA Linnæus.

148. *Fistularia petimba* Lacépède. Cuyo; Lubang (Jordan & Richardson); San Fabian; Bacon (Evermann & Seale, A); Cavite (Jordan & Seale, A).
 149. *Fistularia serrata* Cuvier. Cavite (Jordan & Seale, A); Manila (Jordan & Richardson); Bacon (Evermann & Seale, A).

Family CENTRISCIDÆ.

CENTRISCUS Linnæus.

150. *Centriscus scutatus* Linnæus. Philippine Islands (Günther); Station 203, Philippines (Günther, A); Manila (Jordan & Seale, A).

ÆOLISCUS Jordan & Starks.

151. *Æoliscus strigatus* (Günther). Cagayancillo (Jordan & Richardson); Bacon (Evermann & Seale, A).

Family SYNGNATHIDÆ.

SIPHOSTOMA Rafinesque.

152. *Siphostoma schlegeli* (Kaup). Zamboanga (Seale & Bean). (A Japanese species, not to be expected to occur so far south.)

CORYTHOICHTHYS Kaup.

153. **Corythoichthys spicifer** (Kaup). Manila; Cavite (Jordan & Seale, A); Aparri (Jordan & Richardson); Luzon (Peters, C); Samar; Leyte (Peters, C, var. *rivalis*).
154. **Corythoichthys pullus** Smith & Seale. Rio Grande, Mindanao (Smith & Seale).
Corythoichthys pullus Smith & Seale, Proc. Biol. Soc. Wash., XIX, 1906, 75, fig; Rio Grande, Mindanao, P. I.
155. **Corythoichthys eleræ** Evermann & Seale. Bacon (Evermann & Seale, A).
Corythoichthys eleræ Evermann & Seale, Bull. U. S. Bur. Fish., XXVI, 1906, 57, fig. 2; Bacon, P. I.
156. **Corythoichthys bleekeri** Day. Zamboanga (Seale & Bean).

DORYRHAMPHUS Kaup.

157. **Doryrhampus macgregori** Jordan & Richardson. Calayan (Jordan & Richardson).
Doryrhampus macgregori Jordan & Richardson, Bull. U. S. Bur. Fish., XXVII, 246, 1908. Calayan, P. I.

CÆLONOTUS Peters.

158. **Cælonotus leiaspis** (Bleeker). Mindoro; Sibuyan (Jordan & Richardson).

DORYICHTHYS Kaup.

159. **Doryichthys spaniaspis** Jordan & Seale. Cavite (Jordan & Seale, A).
Doryichthys spaniaspis Jordan & Seale, Bull. U. S. Bur. Fish., XXVI, 1906, 10, fig. 3; Cavite, P. I.

MICROPHIS Kaup.

160. **Microphis pleurostictus** Peters. Luzon (Peters, C; Günther); Palawan (Boulenger, A).
161. **Microphis caudatus** Peters. Samar (Peters, C).
162. **Microphis jagorii** Peters. Samar (Peters, C).

GASTEROTOKEUS Heckel.

163. **Gasterotokeus biaculeatus** (Bloch). Philippine Islands (Günther; Richardson, B); Leyte (Peters, C); Panay (Jordan & Seale, A); Negros (Jordan & Seale, B); Cuyo; (Jordan & Richardson); Bacon (Evermann & Seale, A). Zamboanga (Seale & Bean).

HIPPOCAMPUS Linnaeus.

164. **Hippocampus kuda** Bleeker. Cavite (Jordan & Seale, A); Mindoro (Jordan & Richardson); Zamboanga (Seale & Bean).
165. **Hippocampus aterrimus** Jordan & Snyder. Cavite (Jordan & Seale, A); Negros (Jordan & Seale, B, *Hippocampus kuda*, not of Bleeker).
Hippocampus aterrimus Jordan & Snyder, Proc. U. S. Nat. Mus., XXIV, 1901, 14, pl. IX; Ishigaki, Riukiu.
166. **Hippocampus barbouri** Jordan & Richardson. Cuyo; (Jordan & Richardson).
Hippocampus barbouri Jordan & Richardson, Bull. U. S. Bur. Fish., XXVII, 247, 1908. Cuyo, P. I.

Family PEGASIDÆ.

PARAPEGASUS Duméril.

167. *Parapegasmus natans* (Linnæus). Cavite (Jordan & Seale, A).

PEGASUS Linnæus.

168. *Pegasus volitans* Linnæus. (*Pegasus draconis* Linnæus (1768). Zamboanga (Seale & Bean).

Family HOLOCENTRIDÆ.

MYRIPRISTIS Cuvier.

169. *Myripristis murdjan* (Forskål). Cagayancillo (Jordan & Richardson); Bacon (Evermann & Seale, A); Zamboanga (Seale & Bean).
 170. *Myripristis microphthalmus* Bleeker. Bacon; Bulan (Evermann & Seale, A).
 171. *Myripristis pralinus* Cuvier & Valenciennes. Bacon (Evermann & Seale, A).
 172. *Myripristis macrolepis* Bleeker. Zamboanga (Evermann & Seale, A). Zamboanga (Seale & Bean).

HOLOCENTRUS (Artedi) Gronow.

173. *Holocentrus ruber* Lacépède. Cagayancillo; Cuyo; Calayan (Jordan & Richardson); Philippines (Günther, *Holocentrus rubrum*); Panay (Jordan & Seale, A, *Holocentrus ruber*); Manila (Kner, *Holocentrus rubrum*). (Including the ontogenetic subspecies *praslin* found on coral reefs.)
 174. *Holocentrus caudimaculatus* Rüppell. Zamboanga (Seale & Bean).
 175. *Holocentrus lacteoguttatus* Cuvier & Valenciennes. Calayan (Jordan & Richardson).
 (*Holocentrus lacteoguttatus*, *punctatissimus*, and *argenteum*, Cuvier & Valenciennes; *diploxiphus* Günther; *gracilispinis* and *gladispinis* Fowler).
 176. *Holocentrus microstomus* Günther. Cagayancillo (Jordan & Richardson).
 177. *Holocentrus cornutus* Bleeker. Bacon; Bulan (Evermann & Seale, A); Zamboanga (Seale & Bean).
 178. *Holocentrus sammara* (Forskål). Cagayancillo (Jordan & Richardson).

Family SCOMBRIDÆ.

SCOMBER Linnæus.

179. *Scomber microlepidotus* Rüppell. Cavite (Jordan & Seale, A); Manila; (Jordan & Richardson); Bacon (Evermann & Seale, A); Zamboanga, (Seale & Bean).
 180. *Scomber japonicus* Houttuyn. Bulan (Evermann & Seale, A).

RASTRELLIGER Jordan & Dickerson.

181. *Rastrelliger brachysomus* Bleeker. San Fabian (Evermann & Seale, A).
 182. *Rastrelliger loo* Cuvier & Valenciennes. Manila (Kner).

EUTHYNNUS¹ Lütken.

183. *Euthynnus pelamis* (Linnaeus). Bulan (Evermann & Seale, A).

NESOGRAMMUS Evermann & Seale.

184. *Nesogrammus piersoni* Evermann & Seale. Bulan (Evermann & Seale, A).
Nesogrammus piersoni Evermann & Seale, Bull. U. S. Bur. Fish., XXVI,
 1906, 61, fig. 3; *Bulan*, P. I.

SCOMBEROMORUS Lacépède.

185. *Scomberomorus commersoni* Lacépède. Cavite (Jordan & Seale, A).
 186. *Scomberomorus konam* (Bleeker). Manila (Kner).

Family CARANGIDÆ.

SCOMBEROIDES Lacépède.

187. *Scomberoides tol* (Cuvier & Valenciennes). Manila (Jordan & Richardson);
 Cavite (Jordan & Seale, A, *Scomberoides toloo-parah*, not of Rüppell).
 (*Chorinemus moadetta* Day, not of C. & V.)
 188. *Scomberoides toloo-parah* (Rüppell). Cavite (Jordan & Richardson);
 San Fabian (Evermann & Seale, A); Mindanao (Smith & Seale);
 Zamboanga, (Seale & Bean).

ELERIA Jordan & Seale.

189. *Eleria philippina* Jordan & Seale. Negros (Jordan & Seale, B).
Eleria philippina Jordan & Seale, Proc. U. S. Nat. Mus., XXVIII, 1905,
 774, fig. 1; *Negros*, P. I.
 (= *Chorinemus tala* Day, probably not C. & V.)
 190. *Eleria tala* (Cuvier & Valenciennes). Cavite (Jordan & Seale, A); Manila;
 Iloilo (Jordan & Richardson); Mindanao (Smith & Seale). (*Chorinemus tala* & *toloo* C. & V.; (?) *Scomber aculeatus* Bloch). Zamboanga (Seale & Bean).

SERIOLA Cuvier.

191. *Seriola nigrofasciata* (Rüppell). Bulan (Evermann & Seale, A).
 192. *Seriola dumerilii* (Risso). Manila (Kner).

LACTARIUS Cuvier & Valenciennes.

193. *Lactarius lactarius* (Bloch & Schneider). San Fabian (Evermann & Seale, A).

MEGALASPIS Bleeker.

194. *Megalaspis cordyla* (Linnaeus). Bulan; Jolo (Evermann & Seale, A);
 Manila (Jordan & Richardson); Zamboanga (Seale & Bean).

DECAPTERUS Bleeker.

195. *Decapterus macrosomus* Bleeker. Bulan; Bacon (Evermann & Seale, A).
 196. *Decapterus kurra* Bleeker. Bulan (Evermann & Seale, A).

¹The genus *Gymnosarda* (*nuda*) with scaleless corselet is apparently distinct from *Euthynnus*.

TRACHUOPS Gill.

197. *Trachurops crumenophthalma* (Bloch). Cavite (Jordan & Seale, A); Manila; Lubang (Jordan & Richardson).

CARANX Lacépède.

198. *Caranx forsteri* (Cuvier & Valenciennes). Negros (Jordan & Seale, B); Manila; Lubang; Iloilo; Cagayancillo (Jordan & Richardson).
199. *Caranx ignobilis* (Forskål). Cavite (Jordan & Seale, A); Iloilo; Lubang (Jordan & Richardson); Mindanao (Smith & Seale, *Caranx carangus*, specimens said to have breast naked); Zamboanga (Seale & Bean) as *Caranx carangus*.
200. *Caranx sexfasciatus* Quoy & Gaimard. Cavite (Jordan & Seale, A); San Fabian (Evermann & Seale, A); Zamboanga (Seale & Bean).
201. *Caranx boops* Cuvier & Valenciennes. Bacon (Evermann & Seale, A).
202. *Caranx affinis* Rüppell. Cavite (Jordan & Richardson; Jordan & Seale, A, *Caranx hasselti*, not of Bleeker).
203. *Caranx hasselti* Bleeker. Negros (Jordan & Seale, B).
204. *Caranx cynodon* Bleeker. Bacon (?) (Evermann & Seale, A).
205. *Caranx brevis* (Bleeker). Philippines (Evermann & Seale, A).
206. *Caranx freeri* Evermann & Seale. San Fabian (Evermann & Seale, A). *Caranx freeri* Evermann & Seale, Bull. U. S. Fish Comm., XXVI, 1906, 63, fig. 4; *San Fabian, P. I.*
207. *Caranx ophthalmotænia* (Bleeker). Bulan (Evermann & Seale, A).
208. *Caranx ire* Cuvier & Valenciennes. Negros (Jordan & Seale, B); Manila; Iloilo (Jordan & Richardson).
209. *Caranx leptolepis* Cuvier & Valenciennes. Manila (Cuvier & Valenciennes, *Caranx mertensi*; based on figure of Mertens); Cavite (Jordan & Richardson).
210. *Caranx calla* Cuvier & Valenciennes. Cavite (Jordan & Seale, A, *Caranx nigripinnis*, not of Day); Manila; Iloilo (Jordan & Richardson); Bulan (Evermann & Seale, A).
211. *Caranx djeddaba* (Forskål). Manila (Jordan & Richardson); Philippines (Evermann & Seale, A).
212. *Caranx deani* Jordan & Seale. Negros (Jordan & Seale, B); Cavite (Jordan & Richardson). *Caranx deani* Jordan & Seale, Proc. U. S. Nat. Mus., XXVIII, 1905, 776, fig. 2; *Negros P. I.*
213. *Caranx rastrosus* Jordan & Snyder. (*Caranx rastrosus* Jordan & Snyder, Bull. Carnegie Museum, 1908, IV, p. 37, pl. 61, Formosa, Cavite).
214. *Caranx armatus* (Forskål). Cavite (Jordan & Seale, A); Manila (Jordan & Richardson); San Fabian (Evermann & Seale, A).
215. *Caranx altissimus* Jordan & Seale. Manila (Jordan & Richardson). *Caranx altissimus* Jordan & Seale, Proc. Davenport Acad., X, 1905, 7, pl. 3; *Hong Kong*.
216. *Caranx halli* (Evermann & Seale.) San Fabian (Evermann & Seale, A). *Citula halli* Evermann & Seale, Bull. U. S. Fish Comm., XXVI, 1906, 65, fig. 5, *San Fabian, P. I.*

ULUA Jordan & Snyder.

217. **Ulua richardsoni** Jordan & Snyder. Cavite (Lung Coll. recorded as *Caranx plumbeus*).
(*Ulua richardsoni* Jordan & Snyder, Bull. Carnegie Museum, 1908, IV, p. 39, pl. LIII: *Formosa*; Cavite.)

GNATHANODON Bleeker.

218. **Gnathanodon speciosus** (Forskål). Philippine Islands (Gunther); Cavite (Jordan & Seale, A) Bulan (Evermann & Seale, A); Zamboanga (Seale & Bean).

ALECTIS Rafinesque.

219. **Alectis major** (Cuvier & Valenciennes). Manila (Jordan & Richardson); Cavite (Jordan & Seale, A, *Alectis ciliaris*, not of Bloch). Zamboanga (Seale & Bean) as *Alectis ciliaris*.
Zeus gallus Bloch, not of Linnæus; (?) *Zeus virescens* Lacépède; *Gallichthys major* Cuvier & Valenciennes; *Scyris indica* Rüppell.

TRACHINOTUS Lacépède.

220. **Trachinotus bailloni** (Lacépède). Zamboanga (Evermann & Seale, A).

APOLECTUS Cuvier & Valenciennes.

221. **Apolectus niger** (Bloch). Cavite (Jordan & Seale, A); Manila (Jordan & Richardson).

Family **RACHYCENTRIDÆ**.**RACHYCENTRON** Kaup.

222. **Rachycentron canadum** (Linnæus). Manila; Panay (Jordan & Seale, A, *Rachycentron pondicerianum*); Manila (Jordan & Richardson); Bulan (Evermann & Seale, A).

Family **TRICHIURIDÆ**.**TRICHIURUS** Linnæus.

223. **Trichiurus haumela** (Forskål). Manila (Jordan & Richardson); San Fabian (Evermann & Seale, A); Cavite (Jordan & Seale, A, *Trichiurus savala*, not of Bleeker).
224. **Trichiurus lajor** Bleeker. Manila (Kner).

Family **EQUULIDÆ**.**LEIOGNATHUS** Lacépède.

225. **Leiognathus caballus** (Cuvier & Valenciennes). Manila; Iloilo; Aparri (Jordan & Richardson); Cavite (Jordan & Seale, A, *Leiognathus dussumieri*, not of C. & V.); San Fabian (Evermann & Seale, A, *Leiognathus edentula*). (=Totah-Karah Russell; (?) *Scomber equula* Forskål). Zamboanga (Seale & Bean) as *L. edentula*.

226. *Leiognathus ensiferus* (Cuvier & Valenciennes). Manila (Jordan & Richardson); Philippine Islands (Günther, A, *Equula dussumieri*; (?) Mindanao (Smith & Seale,¹ *Leiognathus dussumieri*).
(= *Equula ensifera* & *dussumieri* Cuvier & Valenciennes; *Equula dussumieri*, Günther; *Equula edentula*, Günther, part). Zamboanga (Seale & Bean) (as *L. dussumieri*).
227. *Leiognathus coma* (Cuvier & Valenciennes). Iloilo; Manila (Jordan & Richardson); San Fabian (Evermann & Seale, A, *Leiognathus dussumieri*, not of C. & V.).
(*Equula coma* Cuvier & Valenciennes, after Komah-Karah of Russell.)
228. *Leiognathus splendens* (Cuvier). Negros (Jordan & Seale, B); Manila, Aparri (Jordan & Richardson); San Fabian; Bacon (Evermann & Seale, A); Mindanao (Smith & Seale).
229. *Leiognathus fasciatus* (Lacépède). Philippine Islands (Günther; also A); Manila (Cuvier & Valenciennes, *Equula longispinis*, after drawing made by Russian Expedition); Cavite (Jordan & Seale, A); San Fabian (Evermann & Seale, A).
230. *Leiognathus leuciscus* (Günther). Negros (Jordan & Seale, B).
231. *Leiognathus virgatus* Fowler. Bulan (Evermann & Seale, A).
Leiognathus virgatus Fowler, Journ. Ac. Nat. Sci. Phila., (2) XII, 1904, 515, pl. XV, fig. 4; *Padang, Sumatra*.
232. *Leiognathus stercorarius* Evermann & Seale. Bulan (Evermann & Seale, A).
Leiognathus stercorarius Evermann & Seale, Bull. U. S. Fish Comm., XXVI, 1906, 67, fig. 6; *Bulan, P. I.*
233. *Leiognathus edwardsi* Evermann & Seale. San Fabian (Evermann & Seale, A).
Leiognathus edwardsi Evermann & Seale, Bull. U. S. Fish Comm., XXVI, 1906, 68, fig. 7; *San Fabian, P. I.*

EQUULA Cuvier. (*Deceaimentum* Fowler.)

234. *Equula insidiator* (Bloch). Manila (Kner); Cavite (Jordan & Seale, A); Negros (Jordan & Seale, B); Manila (Jordan & Richardson).
235. *Equula ruconia* (Hamilton-Buchanan). Cavite (Jordan & Seale, A).

GAZZA Rüppell.

236. *Gazza minuta* (Bloch). Cavite (Jordan & Seale, A); Negros (Jordan & Seale, B); Iloilo; Manila; Lubang (Jordan & Richardson); San Fabian (Evermann & Seale, A); Mindanao (Smith & Seale).
237. *Gazza tapeinosoma* Bleeker. Bulan (Evermann & Seale, A).

Family MENIDÆ.

MENE Lacépède.

238. *Mene maculata* (Bloch). Panay (Jordan & Seale, A); Manila (Jordan & Richardson).

¹ Description by Smith & Seale not sufficient for determination. These writers probably followed Günther, in which case references fall in present synonymy.

Family PEMPHERIDÆ.

PEMPHERIS Cuvier.

239. *Pempheris oualensis* Cuvier & Valenciennes. Calayan (Jordan & Richardson).
 240. *Pempheris vanicolensis* Cuvier & Valenciennes. Bacon; Bulan (Evermann & Seale, A).

Family APOGONICHTHYIDÆ.

AMIA Gronow. (*Apogon* Lacépède.)

241. *Amia hyalosoma* (Bleeker). Luzon (Peters, C); Calayan; Mindoro (Jordan & Richardson).
 242. *Amia koilomatodon* (Bleeker). Bacon (Evermann & Seale, A).
 243. *Amia margaritophora* (Bleeker). Bacon (Evermann & Seale, A).
 244. *Amia sangiensis* (Bleeker). Bulan (Evermann & Seale, A).
 245. *Amia monochroa* (Bleeker). Bulan (Evermann & Seale, A).
 246. *Amia novæ-guineæ* (Valenciennes). Philippines (Jordan & Seale, A); Negros (Jordan & Seale, B); Iloilo (Jordan & Richardson).
 247. *Amia bifasciata* (Rüppell). Philippine Islands (Günther). (?*Amia elizabethæ* Jordan & Seale).
 248. *Amia quadrifasciata* (Cuvier & Valenciennes). Cavite (Jordan & Seale, A); Manila (Jordan & Richardson); Jolo (Evermann & Seale, A).
 249. *Amia endekataenia* (Bleeker). Bacon (Evermann & Seale, A).
 250. *Amia novemfasciata* (Cuvier & Valenciennes). Negros (Jordan & Seale, B); Calayan; Cuyo; Ticao (Jordan & Richardson); Bacon (Evermann & Seale, A, *Amia fasciata*,¹ not of White). *Apogon fasciatus* Peters, C., Luzon, Samar, is doubtless *A. novemfasciata*. Zamboanga, as *Amia fasciata* (Seale & Bean).
 250a. *Amia frænata* (Valenciennes). Bacon (Evermann & Seale, A).
 251. *Amia savayensis* (Günther). Bacon (Evermann & Seale, A).
 252. *Amia chrysopoma* (Bleeker). Bacon (Evermann & Seale, A).
 253. *Amia hartzfeldi* (Bleeker). Bacon (Evermann & Seale, A).
 254. *Amia kalloptera* (Bleeker). Fuga (Jordan & Richardson).
 255. *Amia lateralis* (Valenciennes). Cuyo (Jordan & Richardson).
 256. *Amia bleekeri* (Günther). Bacon; San Fabian (Evermann & Seale, A).
 257. *Amia gilberti* Jordan & Seale. Negros (Jordan & Seale, B).
Amia gilberti Jordan & Seale, Proc. U. S. Nat. Mus., XXVIII, 1905, 777, fig. 3; *Negros, P. I.*
 258. *Amia cavitensis* Jordan & Seale. Cavite (Jordan & Seale, A).
Amia cavitensis Jordan & Seale, Bull. U. S. Fish Comm., XXVI, 1906, 16, fig. 5; *Cavite, P. I.*
 259. *Amia jenkinsi* (Evermann & Seale). Bulan (Evermann & Seale, A).
Amia jenkinsi Evermann & Seale, Bull. U. S. Fish Comm., XXVI, 196, 73, fig. 9; *Bulan, P. I.*
 260. *Amia orbicularis* (Cuvier & Valenciennes). Palawan (Vaillant); Zamboanga (Seale & Bean).

¹ If *Mullus fasciatus* White from Sydney is a species distinct from *Apogon fasciatus* Quoy & Gaimard, as it seems to be, the name *novemfasciata* of C. & V., although published later must supersede *fasciata* of Q. & G.

MIONORUS Kreff.

261. *Mionorus glaga* (Bleeker). Cavite (Jordan & Seale, A); Manila (Jordan & Richardson).
 262. *Mionorus mydrus* (Jordan & Seale). Negros (Jordan & Seale, B).
Mionorus mydrus Jordan & Seale, Proc. U. S. Nat. Mus., XXVIII, 1905, 778,
 fig. 4; *Negros, P. I.*

APOGONICHTHYS Bleeker. (*Foa* Jordan & Evermann.)

263. *Apogonichthys fo* Jordan & Seale. Negros (Jordan & Seale, B); Cavite (Jordan & Seale, A); Iloilo (Jordan & Richardson).
Foa fo Jordan & Seale, Proc. U. S. Nat. Mus., XXVIII, 1905, 779,
 fig. 5; *Negros, P. I.* (with figure of *Fowleria brachygramma*).

ARCHAMIA Gill.

264. *Archamia lineolata* (Ehrenberg). Cavite (Jordan & Seale, A); Zamboanga (Smith & Seale).
 265. *Archamia macropteroides* (Bleeker). Bacon (Evermann & Seale, A).
 266. *Archamia bleekeri* (Günther). Bacon; San Fabian (Evermann & Seale, A).

PSEUDAMIA Bleeker.

267. *Pseudamia polystigma* (Bleeker). Cavite (Jordan & Seale, A).

FOWLERIA Jordan & Evermann.

268. *Fowleria mentalis* (Evermann & Seale). Bacon (Evermann & Seale, A).
Apogonichthys mentalis Evermann & Seale, Bull. U. S. Fish Comm., XXVI,
 1906, 74, fig. 10; *Bacon, P. I.* This species may not belong to this genus.

Family **AMBASSIDÆ**.**AMBASSIS** Lacépède.

269. *Ambassis urotænia* Bleeker. Calayan; Iloilo (Jordan & Richardson); Bacon (Evermann & Seale, A); Mindanao (Smith & Seale).
 270. *Ambassis lungi*¹ (Jordan & Seale). Cavite (Jordan & Seale, A); Bacon (Evermann & Seale, A). Zamboanga (Seale & Bean).
Priopis lungi Jordan & Seale, Bull. U. S. Fish Comm., XXVI, 1906, 18, fig. 6;
Cavite.
 271. *Ambassis kopsi* (Bleeker). Cavite (Jordan & Seale, A); Iloilo (Jordan & Richardson).
 272. *Ambassis commersonii* Cuvier & Valenciennes.
(Centropomus ambassis Lacépède) Philippines (Günther).

PRIOPIS Kuhl & Van Hasselt. (Lateral line interrupted.)

273. *Priopis interruptus* (Bleeker). Luzon; Samar (Peters, C); Cavite (Jordan & Seale, A); Mindoro; Cuyo (Jordan & Richardson).
 274. *Priopis buruensis* (Bleeker). Cavite (Jordan & Seale, A); Aparri (Jordan & Richardson).
 275. *Priopis gymnocephalus* (Lacépède). Negros (Jordan & Seale, B).
 276. *Priopis urotænia* (Bleeker). Zamboanga (Seale & Bean).

¹ The lateral line in this species is really complete. It is therefore an *Ambassis* not a *Priopis*.

Family ACROPOMATIDÆ.

ACROPOMA Temminck & Schlegel.

277. *Acropoma philippinense* Günther. Sta. 201, Philippine Islands (Günther, A).
Acropoma philippinense Günther, Shore Fishes Challenger, p. 51; Sta. 201, Philippine Islands.

Family KUHLIIDÆ.

KUHLIA Gill.

278. *Kuhlia marginata* (Cuvier & Valenciennes). Rio Baco, Mindoro; Aparri (Jordan & Richardson).
 279. *Kuhlia rupestris* (Lacépède). Samar; Leyte (Peters, C); Mindoro (Jordan & Richardson). Zamboanga (Seale & Bean).
 280. *Kuhlia malo* (Cuv. & Val.). Zamboanga (Seale & Bean.)

Family SERRANIDÆ.

LATES Cuvier.

281. *Lates calcarifer* (Bloch). Cavite (Jordan & Seale, A); Zamboanga (Evermann & Seale, A).

NIPHON Cuvier & Valenciennes.

282. *Nippon spinosus* Cuvier & Valenciennes. Cuyo (Jordan & Richardson).

VARIOLA Swainson.

283. *Variola louti* (Forskål). Calayan (Jordan & Richardson).

CEPHALOPHOLIS Bloch & Schneider.

284. *Cephalopholis stigmatopomus* (Richardson). Manila (Jordan & Seale, A).
 285. *Cephalopholis miniatus* (Forskål). Calayan (Jordan & Richardson).
 286. *Cephalopholis argus* (Bloch). Cagayancillo (Jordan & Richardson).
 287. *Cephalopholis maculatus* Seale & Bean). Zamboanga (Seale & Bean).
 288. *Cephalopholis leopardus* (Lacépède). Calayan (Jordan & Richardson).
 289. *Cephalopholis urodelus* (Forster). Zamboanga (Seale & Bean).
 290. *Cephalopholis boenack* (Bloch). Bacon (Evermann & Seale, A).
 291. *Cephalopholis sonnerati* (Cuv. & Val.). Zamboanga (Seale & Bean).
 292. *Cephalopholis pachycentron* (Cuvier & Valenciennes). Bacon (Evermann & Seale, A).
 293. *Cephalopholis kendalli* Evermann & Seale. Bacon (Evermann & Seale, A).
Cephalopholis kendalli Evermann & Seale, Bull. U. S. Bur. Fish, XXVI, 1906, 76, fig. 11; Bacon, P. I.
 294. *Cephalopholis obtusauris* Evermann & Seale. Bacon (Evermann & Seale, A).
Cephalopholis obtusauris Evermann & Seale, Bull. U. S. Bur. Fish, XXVI, 1906, 77, fig. 12; Bacon, P. I. Zamboanga (Seale & Bean).

EPINEPHELUS Bloch.

295. *Epinephelus merra* Bloch. Philippine Islands (Günther; Boulenger, B); Bacon (Evermann & Seale, A) (prob, not *S. merra* of Day, which prob.=*Epinephelus megachir*); Zamboanga (Seale & Bean).

296. *Epinephelus hexagonatus* (Bloch & Schneider). Philippine Islands (Günther). (Regarded as a synonym of *Epinephelus merra* by Boulenger, Cat. I, 241.)
297. *Epinephelus tauvina* (Forskål). Cavite (Jordan & Seale, A); Negros (Jordan & Seale, B); Bacon (Evermann & Seale, A); Zamboanga (Seale & Bean).
298. *Epinephelus malabaricus* (Bloch). Cavite (Jordan & Seale, A); Philippine Islands (Günther, *Serranus suillus*). (Regarded as synonym of *Epinephelus tauvina* by Boulenger.)
299. *Epinephelus megachir* (Richardson). Philippine Islands (Boulenger, B); Cavite (Jordan & Seale, A); Calayan (Jordan & Richardson).
300. *Epinephelus diacanthus* (Cuvier & Valenciennes). Philippine Islands (Günther, A); Cavite (Jordan & Seale, A); Cuyo; Cagayancillo (Jordan & Richardson).
301. *Epinephelus bontoides* (Bleeker). Mindanao (Smith & Seale).
302. *Epinephelus fasciatus* (Forskål). Cebu (Boulenger, B); Bacon (Evermann & Seale, A); Zamboanga (Seale & Bean).
303. *Epinephelus maculatus* (Bloch). San Fabian (Evermann & Seale, A). (= *Serranus albofuscus* of Günther).
304. *Epinephelus nebulosus* (Cuvier & Valenciennes). Aparri (Jordan & Richardson).
305. *Epinephelus cæruleopunctatus* (Bloch). Philippine Islands (Boulenger, B).
306. *Epinephelus fuscoguttatus* (Forskål). Philippine Islands (Boulenger, B).
307. *Epinephelus undulosus* (Quoy & Gaimard). Zamboanga (Seale & Bean).

CROMILEPTES Swainson.

308. *Cromileptes altivelis* (Cuvier & Valenciennes). Cebu (Boulenger, B); Manila (Jordan & Seale, A); Negros (Jordan & Seale, B); Bacon (Evermann & Seale, A).

PSAMMOPERCA Richardson.

309. *Psammoperca waigiensis* (Cuvier & Valenciennes). Bulan (Evermann & Seale, A); Manila (Müller & Troschel, *Onidon chinensis*; Günther, after M. & T; Kner); Cebu (Boulenger, B).

GRAMMISTES Bloch & Schneider.

310. *Grammistes sexlineatus* (Thunberg). Philippine Islands (Günther, *Grammistes orientalis*, Boulenger, B); Bacon (Evermann & Seale, A); Palawan (Vaillant, *Grammistes orientalis*).

CENTROGENYS Richardson. (*Myriodon* Brisout de Barneville; *Gennadius* Jordan & Seale.)

311. *Centrogenys vaigiensis* (Quoy & Gaimard). Panay (Jordan & Seale, A, *Gennadius stoliczæ*); Cuyo (Jordan & Richardson); Cebu (Boulenger, B).

The serranoid rather than scorpenoid affinities of the Scorpène de Vaigiou of Quoy & Gaimard (erroneously figured with lower pectoral rays unbranched) seems to be beyond question. There also seems to be no doubt that the *Sebastes stoliczæ* of Day (= *Gennadius stoliczæ*, Jordan & Seale) is identical with the present species of Quoy & Gaimard, as subsequently admitted by Dr. Day and more recently formally stated by Boulenger.

PHAROPTERYX Rüppell.

312. *Pharopteryx nigricans* (Rüppell). Luzon (Peters, C), *Plesiops caruleolineatus*; Bacon (Evermann & Seale, A); Calayan (Jordan & Richardson); Palawan (Vaillant, *Plesiops corallicola*).
313. *Pharopteryx melas* (Bleeker). Negros (Jordan & Seale, B); Calayan (Jordan & Richardson).

Family PRIACANTHIDÆ.

PRIACANTHUS Cuvier. (*Plesiops* Cuvier.)

314. *Priacanthus cruentatus* (Lacépède). Cavite (Jordan & Seale, A).
315. *Priacanthus hamrur* (Forskål). Bulan (Evermann & Seale, A); Calayan (Jordan & Richardson).

Family LUTIANIDÆ.

LUTIANUS Bloch.

316. *Lutianus sebæ* (Cuvier & Valenciennes). Bulan (Evermann & Seale, A); Zamboanga (Seale & Bean).
317. *Lutianus decussatus* (Cuvier & Valenciennes). Philippine Islands (Günther); Manila (Jordan & Seale, A); Negros (Jordan & Seale, B); Bacon (Evermann & Seale, A).
318. *Lutianus gibbus* (Forskål). Cavite (Jordan & Seale, A); Bacon (Evermann & Seale, A); Zamboanga (Seale & Bean).
319. *Lutianus fulviflamma* (Forskål). Bacon; Zamboanga (Evermann & Seale, A); Zamboanga (Seale & Bean).
320. *Lutianus russelli* (Bleeker). Cavite (Jordan & Seale, A); Cuyo; Iloilo (Jordan & Richardson). Perhaps not distinct from *Lutianus fulviflamma*.
321. *Lutianus luzonius* Evermann & Seale. Bacon (Evermann & Seale, A).
Lutianus luzonius Evermann & Seale, Bull. U. S. Bur. Fish, XXVI, 1906, 80, fig. 13; Bacon, P. I.
322. *Lutianus rivulatus* (Cuv. & Val.). Zamboanga (Seale & Bean).
323. *Lutianus monostigma* (Cuvier & Valenciennes). Bacon (Evermann & Seale, A); Zamboanga (Seale & Bean).
324. *Lutianus amboinensis* (Bleeker). Bulan (Evermann & Seale, A).
325. *Lutianus johni* (Bloch). Philippine (Kner); Negros (Jordan & Seale, B); Bacon; Bulan; Jolo (Evermann & Seale, A).
326. *Lutianus dodecacanthoides* (Bleeker). Manila (Jordan & Seale, A).
327. *Lutianus quinquelineatus* (Bloch). Bulan (Evermann & Seale, A); Manila; Aparri (Jordan & Richardson).
328. *Lutianus vitta* (Quoy & Gaimard). Cavite (Jordan & Seale, A); Bacon; Bulan; Zamboanga (Evermann & Seale, A); Zamboanga (Seale & Bean).
329. *Lutianus lineatus* (Quoy & Gaimard). San Fabian (Evermann & Seale, A); Mindanao (Smith & Seale); Aparri; Lubang (Jordan & Richardson).
330. *Lutianus marginatus* (Cuv. & Val.). Zamboanga (Seale & Bean).
331. *Lutianus chrysotænia* Bleeker. Zamboanga (Seale & Bean).
332. *Lutianus malabaricus* (Bloch & Schneider). Bulan (Evermann & Seale, A); Mindanao (Smith & Seale).

333. *Lutianus furvicaudatus* Fowler. Bacon (Evermann & Seale, A).
Lutianus furvicaudatus Fowler, Journ. Ac. Nat. Sci. Phila., (2) XII, 1904, 525, pl. XVIII, lower fig.; *Padang*.
334. *Lutianus lunulatus* (Mungo Park). Bacon; Bulan (Evermann & Seale, A).
335. *Lutianus erythropterus* Bloch. (Not of Bleeker, which=*Lutianus lineolata* Rüppell). San Fabian (Evermann & Seale, A).
 The identity of Bloch's *Lutianus erythropterus* with the *Mesoprion annularis* of Cuvier & Valenciennes seems to rest on the authority of Dr. Day, who examined the types and found one of them "with the distinct colors of the annularis." The description and figure of Bloch give a far from adequate idea of what species was meant.
336. *Lutianus lineolatus* (Rüppell). Bacon; Bulan (Evermann & Seale, A).
 (= *Lutianus lineolatus* of Day = *Lutianus erythropterus* of Bleeker; probably not *Lutianus erythropterus* of Bloch, as stated by Jordan & Seale, Fishes Samoa, p. 264; see note on preceding species.)
337. *Lutianus kasmira* Forskål). Fuga Island (Jordan & Richardson); Zamboanga (Seale & Bean).
338. *Lutianus argentimaculatus* (Forskål). Calayan; Rio Baco, Mindoro; Iloilo (Jordan & Richardson).

NEMIPTERUS Swainson (*Synagris* Günther).

339. *Nemipterus japonicus* (Bloch). Cavite (Jordan & Seale, A); San Fabian (Evermann & Seale, A); Manila (Jordan & Richardson).
340. *Nemipterus ovenii* (Bleeker). Cavite (Jordan & Seal, A); Bulan (Evermann & Seale, A).
341. *Nemipterus tæniopterus* (Cuvier & Valenciennes). Manila (Jordan & Seale, A); San Fabian (Evermann & Seale, A).
 (*Synagris notatus* Day.)
342. *Nemipterus isacanthus* (Bleeker). Negros (Jordan & Seale, A).
343. *Nemipterus metopias* (Bleeker). Cavite (Jordan & Seale, A).
344. *Nemipterus luteus* (Bloch). Cavite (Jordan & Seale, A).
345. *Nemipterus tolu* (Cuvier & Valenciennes). Cavite (Jordan & Seale, A).
346. *Nemipterus nemurus* (Bleeker). Jolo (Evermann & Seale, A).
347. *Nemipterus worcesteri* Evermann & Seale, A. Bacon (Evermann & Seale, A).
Nemipterus worcesteri Evermann & Seale, Bull. U. S. Bur. Fish, XXVI, 1906, 81, fig. 14; *Bacon*, P. I.

GYMNOCRANIUS Klunzinger.

348. *Gymnocranius lethrinoides* (Bleeker). Bulan (Evermann & Seale, A); Zamboanga (Seale & Bean).

PINJALO Bleeker.

349. *Pinjalo pinjalo* (Bleeker). San Fabian; (*Pinjalo typus* Bleeker) Bulan (Evermann & Seale, A); Cavite (Jordan & Seale, A).

It is not certain whether the name *Cæzio pinjalo* Bleeker 1850 is older than the name *Pinjalo typus*, given by the same author at about the same time.

CÆSIO Cuvier.

250. *Cæzio erythrogaster* (Kuhl & Van Hasselt). Zamboanga (Seale & Bean).
351. *Cæzio chrysozona* Kuhl & Van Hasselt. Bacon (Evermann & Seale, A).

352. *Cæsis cæruleus* (Lacépède). Bacon; Zamboanga; San Fabian (Evermann & Seale, A).
 353. *Cæsis cuning* (Bloch). Bacon; Zamboanga (Evermann & Seale, A).
 354. *Cæsis lunaris* (Ehrenberg). Zamboanga (Seale & Bean).

Family THERAPONIDÆ.

THERAPON¹ Cuvier.

355. *Therapon cancellatus* (Cuvier & Valenciennes). Samar; Leyte (Peters, C); Mindoro (Jordan & Richardson).
 356. *Therapon quadrilineatus* (Bloch). Manila (Kner; Jordan & Seale, A); Bulan; San Fabian (Evermann & Seale, A); Cuyo; Lubang; Iloilo; Aparri (Jordan & Richardson).
 357. *Therapon theraps* (Cuvier & Valenciennes). Philippine Islands (Günther); Philippines, Sta. 203 (Günther, A); Panay (Jordan & Seale, A); Bulan; Bacon (Evermann & Seale, A); Zamboanga (Seale & Bean).
 358. *Therapon jarbua* (Forskål). Cavite (Jordan & Seale, A); Negros (Jordan & Seale, B); Bulan; San Fabian (Evermann & Seale, A); Manila (Evermann & Seale, B); Mindanao (Smith & Seale); Manila; Calayan; Ticao (Jordan & Richardson); Zamboanga (Seale & Bean).
 359. *Therapon puta* (Cuvier & Valenciennes). Cavite (Jordan & Seale, A); Bulan; Bacon; San Fabian (Evermann & Seale, A); Iloilo; Manila (Jordan & Richardson).
 360. *Therapon brachycentrus* (Peters). Luzon (Peters, C and D).
Therapon brevispinis Peters, Monatsber. Akad. Wiss. Berl., 1868, 256
 Luzon, P. I.
Therapon brachycentrus Peters, Monatsber. Akad. Wiss. Berl., 1869, 705
 (substitute for *Therapon brevispinis*, preoccupied).

HELOTES Cuvier.

361. *Helotes sexlineatus* (Quoy & Gaimard). Manila (Kner; Jordan & Richardson).

POMADASIS Lacépède.

362. *Pomadasis hasta* (Bloch). Philippine Islands (Günther); Mindanao (Smith & Seale); Zamboanga (Seale & Bean).
 363. *Pomadasis maculatus* (Bloch). Cavite (Jordan & Seale, A); San Fabian (Evermann & Seale, A); Manila (Jordan & Richardson).
 364. *Pomadasis argenteus* (Lacépède). Cavite (Jordan & Seale, A); Manila (Evermann & Seale, B; Jordan & Richardson).
 365. *Pomadasis argyreus* (Cuvier & Valenciennes). Manila (Jordan & Richardson).
 (= *Pomadasis guoraka* of Day, not of Bleeker).
 366. *Pomadasis niger* (Cuvier & Valenciennes). Manila (Cuvier & Valenciennes; Günther).

SCOLOPSIS Cuvier.

367. *Scolopsis vosmeri* Bleeker. Manila (Jordan & Seale, A).
 368. *Scolopsis ciliata* (Lacépède). Manila (Jordan & Seale, A); Negros (Jordan & Seale, B).

¹Originally printed *Terapon*; an "error of transcription," later corrected to *Therapon*.

369. *Scolopsis bimaculatus* (Rüppell). Zamboanga (Seale & Bean).
 370. *Scolopsis monogramma* (Kuhl & Van Hasselt). Philippines, Sta. 203 (Günther, A); Bulan (Evermann & Seale, A).
 371. *Scolopsis cancellata* (Cuvier & Valenciennes). Bacon; Bulan (Evermann & Seale, A); Cuyo (Jordan & Richardson); Zamboanga (Seale & Bean).
 372. *Scolopsis margaritifera* (Cuvier & Valenciennes). Bacon; Bulan (Evermann & Seale, A).
 373. *Scolopsis bilineata* (Bloch). Bulan (Evermann & Seale, A).
 374. *Scolopsis luzonia* Jordan & Seale. Cavite (Jordan & Seale, A); Bacon; San Fabian (Evermann & Seale, A).
Scolopsis luzonia Jordan & Seale, Bull. U. S. Bur. Fish, XXVI, 1906, 23, fig. 8; *Cavite*, P. I.
 375. *Scolopsis bulanensis* Evermann & Seale. Bulan (Evermann & Seale, A).
Scolopsis bulanensis Evermann & Seale, Bull. U. S. Bur. Fish, XXVI, 1906, 85, fig. 15; *Bulan*, P. I.

PENTAPUS Cuvier & Valenciennes.

376. *Pentapus vittatus* (Bloch). Philippines (Jordan & Seale, A).
 377. *Pentapus setosus* Cuvier & Valenciennes. Bulan; Jolo (Evermann & Seale A).
 378. *Pentapus caninus* (Cuvier & Valenciennes). Bacon (Evermann & Seale, A); Cuyo; Cuyu (Jordan & Richardson).
 379. *Pentapus nemurus* (Bleeker). Zamboanga (Seale & Bean).

PLECTORHYNCHUS Lacépède.

380. *Plectorhynchus orientalis* (Bloch). Calayan (Jordan & Richardson).
 381. *Plectorhynchus lineatus* (Linnaeus) Aparri (Jordan & Richardson).
 382. *Plectorhynchus goldmanni* (Bleeker). Jolo; San Fabian (Evermann & Seale, A).
 383. *Plectorhynchus celebicus* Bleeker. Jolo (Evermann & Seale, A).
 384. *Plectorhynchus chrysotænia* (Bleeker). Bulan (Evermann & Seale, A).
 385. *Plectorhynchus hæmatochir* (Bleeker). Zamboanga (Seale & Bean).

SPILOTICHTHYS Fowler.

386. *Spilotichthys pictus* (Thunberg). Cavite (Jordan & Seale, A); Bulan; Jolo (Evermann & Seale, A).

EUELATICHTHYS Fowler.

387. *Euelaticthys crassispinus* (Rüppell). Cavite (Jordan & Seale, A); Manila (Evermann & Seale, A); Zamboanga (Seale & Brown).

HAPALOGENYS Richardson.

388. *Hapalogenys meyeri* Peters. Manila (Peters, B).
Hapalogenys meyeri Peters, Monatsber. Akad. Wiss. Berl., 1866, 96; *Manila*, P. I.

Family SPARIDÆ.

LETHRINELLA Fowler.

389. *Lethrinella miniata* (Forster) Zamboanga, (Seale & Bean).

LETHRINUS Cuvier.

390. *Lethrinus harak* (Forskål). Bacon; San Fabian; Jolo (Evermann & Seale, A); Zamboanga, (Seale & Bean).
 391. *Lethrinus bonhamensis* (Günther). Negros (Jordan & Seale, B).
 392. *Lethrinus amboinensis* Bleeker. Cavite (Jordan & Seale, A).
 393. *Lethrinus mahsena* (Forskål). Philippine Islands (Günther, D; Evermann & Seale, A, *Lethrinus hypselopterus*).
 394. *Lethrinus mahsenoides* Ehrenberg. Philippine Islands (Günther); Philippines (Jordan & Seale, A); Evermann & Seale, A); Jolo (Evermann & Seale, B); Cuyo (Jordan & Richardson); Zamboanga, (Seale & Bean).
 395. *Lethrinus moensii* Bleeker. Bacon (Evermann & Seale, A); Jolo (Evermann & Seale, B); Calayan (Jordan & Richardson).
 396. *Lethrinus ornatus* Cuvier & Valenciennes. Bulan (Evermann & Seale, A).
 397. *Lethrinus variegatus* Ehrenberg. San Fabian (Evermann & Seale, A).
 398. *Lethrinus nematacanthus* Bleeker. Bulan (Evermann & Seale, A).
 399. *Lethrinus jagorii* Peters. Luzon (Peters, C). *Lethrinus jagorii* Peters, Monatsber. Akad. Wiss. Verl., 1868, 257; Luzon, P. I.
 400. *Lethrinus richardsoni* Günther. Bacon (Evermann & Seale, A); Manila (Kner, *Lethrinus hamatopterus*).
 (Not *Lethrinus hamatopterus* of Temminck & Schlegel). Zamboanga (Seale & Bean).
 401. *Lethrinus xanthotænia* (Bleeker). Zamboanga (Seale & Bean).

SPARUS Linnæus. (*Chrysophrys* Cuvier & Valenciennes).

402. *Sparus calamara* Russell. Bulan (Evermann & Seale, A).
 403. *Sparus berda* Forskål. Manila (Kner, *Chrysophrys hasta*).

Family KYPHOSIDÆ.

KYPHOSUS Lacépède.

404. *Kyphosus cinerascens* (Forskål). Philippine Islands (Günther, *Pimelepterus tahmel*); Calayan (Jordan & Richardson).

Family MÆNIDÆ.

EMMELICHTHYS Richardson.

405. *Emmelichthys leucogrammicus* (Bleeker). Bulan; Bacon (Evermann & Seale, A).

Family GERRIDÆ.

XYSTÆMA Jordan & Evermann.

406. *Xystæma punctatum* (Cuvier & Valenciennes). Philippine Islands (Günther); Cavite (Jordan & Seale, A); Negros, (Jordan & Seale, B); Calayan; Aparri; Iloilo; Zamboanga (Seale & Bean); (Jordan & Richardson); Bulan (Evermann & Seale, A); Samar (Peters, C, *Gerres filamentosus*).
 407. *Xystæma kapas* (Bleeker). Cuyo (Jordan & Richardson); Bacon; Bulan; Jolo (Evermann & Seale, A); Zamboanga, (Seale & Bean).

408. *Xystæma philippinum* (Günther). Philippine Islands (Günther).
 409. *Xystæma baconensis* Evermann & Seale. Bacon; Jolo (Evermann & Seale, A).
Xystæma baconensis Evermann & Seale, Bull. U. S. Bur. Fish, XXVI, 1906, 69, fig. 8; *Bacon and Jolo, P. I.*
 410. *Xystæma oyena* (Forskål). Zamboanga (Seale & Bean).

PENTAPRION Bleeker.

411. *Pentaprion longimanus* (Cantor). Cavite (Jordan & Seale, A).

Family MULLIDÆ.

UPENEUS¹ Cuvier.

412. *Upeneus barberinus* (Lacépède). Iloilo (Jordan & Seale, A); Negros (Jordan & Seale, B); Cuyo (Jordan & Richardson); San Fabian; Bacon (Evermann & Seale, A).
 413. *Upeneus indicus* (Shaw). Iloilo (Jordan & Seale, A); Bacon; Bulan (Evermann & Seale, A).
 414. *Upeneus malabaricus* (Cuvier & Valenciennes). Philippine Islands (Günther).
 415. *Upeneus chryseredros* (Lacépède). Cagayancillo (Jordan & Richardson).
 416. *Upeneus bifasciatus* (Lacépède). Bacon (Evermann & Seale, A).
 417. *Upeneus luteus* (Cuvier & Valenciennes). Jolo (Evermann & Seale, A).
 418. *Upeneus spilurus* (Bleeker). Bulan (Evermann & Seale, A).
 419. *Upeneus moana* (Jordan & Seale). Bacon (Evermann & Seale, A); Zamboanga, (Seale & Bean).
Pseudupeneus moana Jordan & Seale, Bull. U. S. Bur. Fish XXV, 1905, 274; *Samoa*.

MULLOIDES Bleeker.

420. *Mulloides auriflamma* (Forskål). Negros (Jordan & Seale, B).
 421. *Mulloides vanicolensis* (Cuvier & Valenciennes). Zamboanga (Evermann & Seale, A).
 422. *Mulloides japonicus* (Houttuyn). Bulan (Evermann & Seale, A).
 423. *Mulloides samoensis* Günther. San Fabian; Bacon (Evermann & Seale, A).
Mulloides samoensis Günther, Südsee, 57, pl. 43 fig. B; *Apia, Samoa*.

UPENOIDES Bleeker.

424. *Upeneoides vittatus* (Forskål). Philippine Islands (Günther); Lubang; Iloilo (Jordan & Richardson); Mindanao (Smith & Seale); Zamboanga (Seale & Bean).
 425. *Upeneoides tragula* (Richardson). Philippine Islands (Günther); Iloilo (Jordan & Seale, A); Negros (Jordan & Seale, A); Cuyo; Cuyo (Jordan & Richardson); Bacon (Evermann & Seale, A).
 426. *Upeneoides luzonius* (Jordan & Seale). Cavite (Jordan & Seale, A); Manila (Jordan & Richardson).
Upeneus luzonius Jordan & Seale. Bull. U. S. Bur. Fish, XXVI, 1906, 26 fig. 9; *Cavite, P. I.*

¹ Under the rules of the International Code of Zoölogical Nomenclature *Mullus bifasciatus* Lacépède is the type of *Upeneus*.

427. *Upenoides sulphureus* (Cuvier & Valenciennes). Cavite (Jordan & Seale, A); Manila (Jordan & Richardson); San Fabian (Evermann & Seale, A).
 428. *Upeneoides sundaicus* (Bleeker). Bacon (Evermann & Seale, A).

Family SCIÆNIDÆ.

UMBRINA Cuvier.

429. *Umbrina dussumieri* Cuvier & Valenciennes. Cavite (Jordan & Seale, A); Manila (Jordan & Richardson); San Fabian (Evermann & Seale, A).
 430. *Umbrina russelli* Cuvier & Valenciennes. Cavite (Jordan & Seale, A); San Fabian (Evermann & Seale, A).

PSEUDOSCIÆNA Bleeker.

431. *Pseudosciæna anea* (Bloch). Cavite (Jordan & Seale, A); Manila (Jordan & Richardson).

JOHNIUS Bloch & Schneider.

432. *Johnius belengeri* (Cuvier & Valenciennes). Manila (Kner); San Fabian (Evermann & Seale, A).

OTOLITHES¹ (Cuvier) Oken.

433. *Otolithes argenteus* Kuhl & Van Hasselt. Bacon (Evermann & Seale, A).
 434. *Otolithes leuciscus* Günther. Manila (Günther, C).
Otolithus leuciscus Günther, An. Mag. N. H., 1872, 398; Manila, P. I.

Family SILLAGINIDÆ.

SILLAGO Cuvier.

435. *Sillago sihama* (Forskål). Philippine Islands (Günther); Cavite (Jordan & Seale, A); Negros (Jordan & Seale, B); Manila; Aparri (Jordan & Richardson).
 436. *Sillago macrolepis* Bleeker. Bulan (Evermann & Seale, A).
 437. *Sillago maculata* Quoy & Gaimard. Manila (Kner).

Family PSEUDOCHROMIDÆ.

PSEUDOCHROMIS Rüppell.

438. *Pseudochromis adustus* Müller & Troschel. Philippine Islands (Müller & Troschel, Günther).
 439. *Pseudochromis tapeinosomus* (Bleeker) Negros (Jordan Seale, B).

DAMPIERIA² Castelnau (1875). (*Cichlops* Müller & Troschel, preoccupied; *Labracinus* Schlegel, Gill.)

440. *Dampiera spiloptera* (Bleeker). Calayan; Fuga (Jordan & Richardson).
 441. *Dampiera melanotænia* (Bleeker). Cuyo (Jordan & Richardson); Bulan (Evermann & Seale, A).
 442. *Dampiera trispilos* (Bleeker). Bacon (Evermann & Seale, A).

¹ This name first appeared in systematic zoölogy as *Otolithes*, not as *Otolithus*.

² See Ogilby, Ann. Queensland Mus. 1908, p. 35.

Family OPISTHOGNATHIDÆ.

GNATHYPOPS Gill.

443. *Gnathypops macrolepis* (Peters). Philippine Islands, Sta. 201, 82 fathoms (Günther, A).
Opisthognathus macrolepis Peters, Monatsber, Ak. Wiss. Berl., 1866, 520; Bangkok.
444. *Gnathypops dendritica* Jordan & Richardson. Cuyo (Jordan & Richardson).
Gnathypops dendritica Jordan & Richardson, Bull. U. S. Bur. Fish, XXVII, 262, 1908. Cuyo, P. I.

Family CHAMPSODONTIDÆ.

CHAMPSODON Günther.

445. *Champsodon vorax* Günther. Philippine Islands, Sta. 204, 115 fathoms (Günther).
Champsodon vorax Günther, Proc. Zool. Soc. Lond., 1867, 102; no loc.

Family CEPOLIDÆ.

ACANTHOCEPOLA Bleeker.

446. *Acanthocephala abbreviata* (Cuvier & Valenciennes). Cavite (Jordan & Seale, A).

Family OPHICEPHALIDÆ.

OPHICEPHALUS Bloch.

447. *Ophicephalus striatus* Bloch. Manila (Cuvier & Valenciennes, Coll M. Mertens); Philippine Islands (Günther) Cavite (Jordan & Seale, A); Negros (Jordan & Seale, B); Philippines (Evermann & Seale, A); Siassi Island (Evermann & Seale, B); Lake Buhi, Luzon (Smith).
448. *Ophicephalus melanosomus* Bleeker. Balabac (Boulenger, A).
449. *Ophicephalus melanopterus* Bleeker. Mindanao (Smith & Seale).
450. *Ophicephalus vagus* Peters. Luzon; Samar; Leyte (Peters, C); Manila (Günther, A).
Ophicephalus vagus Peters, Monatsber, Ak. Wiss. Berl., 1868, 260; Luzon; Samar; Leyte, P. I.
451. *Ophicephalus maculatus* Cuvier & Valenciennes. Manila P. I. (Kner).

Family ANABANTIDÆ.

ANABAS Cuvier.

452. *Anabas testudineus* (Bloch, 1792) Manila (Cuvier & Valenciennes, A. scandens, after a drawing made by Russian Expedition); Philippine Islands (Günther, A. scandens); Luzon; Leyte (Peters, C); Negros (Jordan & Seale, B); Sibuyan (Jordan & Richardson); Lake Buhi, Luzon (Smith, A. scandens); Mindanao (Smith & Seale, A. scandens.) This name is earlier than that of *Perca scandens* Daldorff, 1797.

Family POMACENTRIDÆ.

PREMNAS Cuvier.

453. *Premnas biaculeatus* (Bloch). Philippine Islands (Günther).

AMPHIPRION Bloch & Schneider.

454. **Amphiprion boholensis** Cartier. Bohol (Cartier).
Amphiprion boholensis Cartier, Verh. Ges. Würzburg, 1873, 102; *Bohol*,
P. I.

POMACENTRUS Lacépède.

455. **Pomacentrus tripunctatus** Cuvier & Valenciennes. Cavite (Jordan & Seale, A); Bacon (Evermann & Seale, A); (?) Palawan (Vaillant *P. trilineatus*).
456. **Pomacentrus trimaculatus** Cuvier & Valenciennes. Bacon; San Fabian (Evermann & Seale, A).
457. **Pomacentrus nigricans** Lacépède. Calayan; Cagayancillo (Jordan & Richardson).
458. **Pomacentrus albofasciatus** Schlegel. Calayan. (Jordan & Richardson).
459. **Pomacentrus lividus** (Forster); Negros (Jordan & Seale, B).
460. **Pomacentrus chrysopoecilus** Kuhl & Van Hasselt. Cuyo (Jordan & Richardson; as *Pomacentrus pristiger* Cuv. & Val.).
461. **Pomacentrus littoralis** Kuhl & Van Hasselt. Cavite (Jordan & Richardson; Bacon (Evermann & Seale, A).
462. **Pomacentrus emarginatus** Cuvier & Valenciennes; Negros (Jordan & Seale, B., *P. delurus*); Ticao; Cuyo (Jordan & Richardson).
Pomacentrus delurus Jordan & Seale, Proc. U. S. Nat. Mus., XXVIII, 1905, 783, fig. 6; *Negros*, *P. I.*
463. **Pomacentrus moluccensis** Bleeker. Bacon (Evermann & Seale, A).
464. **Pomacentrus alexandrae** Evermann & Seale. Bacon (Evermann & Seale, A).
Pomacentrus alexandrae Evermann & Seale, Bull. U. S. Fish Comm., XXVI, 1906, 91, fig. 17; *Bacon*, *P. I.*
465. **Pomacentrus popei** Evermann & Seale. Bacon (Evermann & Seale, A).
Pomacentrus popei Evermann & Seale, Bull. U. S. Fish Comm., XXVI, 1906, 90, fig. 16; *Bacon*, *P. I.*
466. **Pomacentrus philippinus** Evermann & Seale. Bacon (Evermann & Seale, A).
Pomacentrus philippinus Evermann & Seale, Bull. U. S. Bur. Fish, XXVI, 1906, 92, fig. 18; *Bacon*, *P. I.*
467. **Pomacentrus punctatolineatus** Cartier. Bohol (Cartier).
Pomacentrus punctatolineatus Cartier, Verh. Ges. Würzburg, 1873, 98; *Bohol*, *P. I.*
468. **Pomacentrus ovoides** Cartier. Bohol; Cavite (Cartier).
Pomacentrus ovoides Cartier, Verh. Ges. Würzburg, 1873, 98; *Bohol*;
Cavite, *P. I.*
469. **Pomacentrus jerdoni** Day. Bulan (Evermann & Seale, A).
470. **Pomacentrus fasciatus** Cuvier & Valenciennes. Philippine Islands (Günther); Ticao (Jordan & Richardson).
471. **Pomacentrus tæniurus** Bleeker. Bohol (Cartier, var.); Philippines (Evermann & Seale, A).
472. **Pomacentrus pavo** Bloch. Cebu (Cartier, var?).

ABUDEFDUF Forskål. (= *Glyphisodon* Lacépède.)

473. **Abudefduf septemfasciatus** (Cuvier & Valenciennes). Philippine Islands (Günther); Bulan (Evermann & Seale, A); Zamboanga (Seale & Bean).
474. **Abudefduf curacao** (Bloch). Bacon (Evermann & Seale, A).

475. *Abudefduf saxatilis* (Linnaeus). Manila (Jordan & Seale, A); Manila; Calayan (Jordan & Richardson).
476. *Abudefduf sexfasciatus* (Lacépède).¹ Luzon (Peters, C).
(*Glyphisodon caelestinus* Cuv. & Val.)
477. *Abudefduf dicki* (Lienard). Cagayancillo (Jordan & Richardson).
478. *Abudefduf glaucus* (Cuvier & Valenciennes). Cagayancillo; Ticao (Jordan & Richardson); Bacon (Evermann & Seale, A).
479. *Abudefduf amabilis* (De Vis). Calayan (Jordan & Richardson).
480. *Abudefduf unimaculatus* (Cuvier & Valenciennes). Negros (Jordan & Seale, B); Calayan; Cagayancillo (Jordan & Richardson); Bacon (Evermann & Seale, A).
481. *Abudefduf turchesius* Jordan & Seale. Cavite (Jordan & Seale, A):
482. *Abudefduf bankieri* (Richardson). Bacon (Evermann & Seale, A).
483. *Abudefduf cyaneus* (Quoy & Gaimard). Bacon (Evermann Seale, A).
(Identification perhaps questionable.)
- 484 (485). *Abudefduf xanthurus* (Bleeker). Bacon (Evermann & Seale, A).
486. *Abudefduf mutabilis* (Cartier). Cebu (Cartier).
Glyphidodon mutabilis Cartier, Verh. Ges. Würzburg, 1873, 100; *Cebu*, P. I.
487. *Abudefduf tænioruptus* Cartier. Bohol (Cartier).
Glyphidodon tænioruptus Cartier, Verh. Ges. Würzburg, 1873, 101; *Bohol*, P. I.
488. *Abudefduf cingulatus* (Kner). Bohol (Cartier).
Glyphidodon cingulatus Kner, Sitzungsber. Ak. Wiss. Wien., Bd. 56, 725.
489. *Abudefduf uniocellatus* (Quoy & Gaimard). Philippine Islands (Günther, as *Glyphidodon assimilis*); Luzon (Peters, C, *Glyphidodon assimilis*, var.)
490. *Abudefduf brownriggi* (Bennett). Ticao (Jordan & Richardson).
491. *Abudefduf antjerius* (Kuhl & Van Hassett). Samar (Peters, C); Ticao; Calayan (Jordan & Richardson); Bacon (Evermann & Seale, A); Zamboanga (Seale & Bean).
492. *Abudefduf zonatus* (Cuvier & Valenciennes). Cagayancillo (Jordan & Richardson); Bacon (Evermann & Seale, A).
493. *Abudefduf sapphirus* Jordan & Richardson. Ticao (Jordan & Richardson).
(*Abudefduf sapphirus* Jordan & Richardson Bull. U. S. Bur. Fish., XXVII, 264, 1908, *Ticao*, P. I.)

DASYLLUS Cuvier.

494. *Dasyllus melanurus* Bleeker. Cagayancillo (Jordan & Richardson).
495. *Dasyllus aruanus* (Linnaeus). Cavite (Jordan & Seale, A).
496. *Dasyllus trimaculatus* (Rüppell). Manila (Jordan & Richardson).
497. *Dasyllus reticulatus* Richardson. Bohol. (Cartier).

Family LABRIDÆ.

CHÆRODON Bleeker.

498. *Chærodon anchorago* (Bloch). Manila (Jordan & Seale, A); Bacon; Jolo (Evermann & Seale, A); Cuyo (Jordan & Richardson).
499. *Chærodon meander* (Cartier). Cebu (Cartier).
Chærops meander Cartier, Verh. Ges. Würzburg, 1873, 102; *Cebu*, P. I.
Probably the young of *Chærodon anchorago*.

¹ The identity of *Labrus sexfasciatus* Lacépède with *Abudefduf caelestinus* noted by Cuv. & Val., is recalled by Dr. Evermann.

500. *Chærodon macrodon* Bleeker. Zamboanga (Seale & Bean).
 501. *Chærodon oligacanthus* (Bleeker). Iloilo (Jordan & Richardson).
 502. *Chærops schænleini* (Agassiz). Negros (Jordan & Seale, B).
 503. *Chærodon unimaculatus* (Cartier). Cavite (Cartier).
Chærops unimaculatus Cartier, Verh. Ges. Würzburg, 1873, 102; *Cavite*,
P. I. (Probably equals *C. schænleini* of Bleeker; not of Agassiz.)
 504. *Chærodon zamboangæ* (Seale & Bean). Zamboanga (Seale & Bean).

LEPIDAPLOIS Gill.

505. *Lepidaplois mesothorax* (Bloch & Schneider). Bacon (Evermann & Seale, A).
 506. *Lepidaplois macrurus* (Lacépède). Manila (Jordan & Seale, A).
 507. *Lepidaplois bilunulatus* (Lacépède). Zamboanga (Seale & Bean).

LABROIDES Bleeker.

508. *Labroides paradiseus* Bleeker. Bacon (Evermann & Seale, A).

DUYMÆRIA Bleeker.

509. *Duymæria flagellifera* Cuvier & Valenciennes. Samboangan (Günther, A).

AMPHECES Jordan & Evermann.

510. *Ampheces pterophthalmus* (Bleeker). Cuyo (Jordan & Richardson).

STETHOJULIS Günther.

511. *Stethojulis phekadopleura* Bleeker. Cavite (Jordan & Seale, A); Negros (Jordan & Seale, B); Cuyo; Calayan (Jordan & Richardson); Bacon (Evermann & Seale).
 512. *Stethojulis bandanensis* (Bleeker). Cavite (Jordan & Seale); Negros (Jordan & Seale, B); Cuyo; Cagayancillo (Jordan & Richardson).
 513. *Stethojulis strigiventer* (Bennett) Cuyo; Cuyu (Jordan & Richardson); Palawan (Vaillant).
 514. *Stethojulis kalosoma* Bleeker. Cavite (Jordan & Seale, A); Negros (Jordan & Seale, B).
 515. *Stethojulis zatima* Jordan & Seale. Negros (Jordan & Seale, B); Cuyo; Calayan (Jordan & Richardson); Bacon (Evermann & Seale, A).
Stethojulis zatima Jordan & Seale, Proc. U. S. Nat. Mus., XXVIII, 1905, 788, fig. 9; *Negros, P. I.*

PLATYGLOSSUS (Klein) Bleeker.

516. *PlatyGLOSSUS notopsis* (Kuhl & Van Hasselt). Calayan (Jordan & Richardson).

HALICHÆRES Rüppell.

517. *Halichæres scapularis* (Bennett). Manila (Jordan & Seale, A); Bacon (Evermann & Seale); Negros (Jordan & Seale, B, *H. cymatogrammus*); Palawan (Vaillant).
Halichæres cymatogrammus Jordan & Seale, Proc. U. S. Nat. Mus., XXVIII, 1905, 786, fig. 8; *Negros, P. I.*
 518. *Halichæres centiquadrus* (Bleeker). Cagayancillo (Jordan & Richardson).
 519. *Halichæres trimaculatus* (Quoy & Gaimard). Cagayancillo (Jordan & Richardson).

520. *Halichoeres nigrescens* (Bloch & Schneider). Manila (Jordan & Seale, A); Bulan (Evermann & Seale, A).
521. *Halichoeres purpurascens* (Bloch & Schneider) Bacon (Evermann & Seale, A).
522. *Halichoeres polyophthalmus* (Bleeker). Bacon (Evermann & Seale, A as *H. guttatus*); Cavite (Jordan & Seale, A, *H. argus*); Negros (Jordan & Seale, B, *H. argus*). (The early names for this species, *guttatus* and *argus* were both preoccupied.)
523. *Halichoeres leparensis* (Bleeker). Bacon (Evermann & Seale, A).
524. *Halichoeres gymnocephalus* (Bloch & Schneider). Philippine Islands (Bleeker, *H. modestus*, specimens in Berlin Museum); Cuyo; (Jordan & Richardson).
(*H. modestus* Bleeker; *PlatyGLOSSUS modestus* Günther.)
525. *Halichoeres binotopsis* Bleeker. Cavite (Jordan & Seale, A); Negros (Jordan & Seale, B).
526. *Halichoeres pœcilus* (Lay & Bennett). Luzon (Peters, C); Cavite (Jordan & Seale, A); Negros (Jordan & Seale, B); Bacon (Evermann & Seale, A); Calayan (Jordan & Richardson).
527. *Halichoeres opercularis* (Günther). Calayan (Jordan & Richardson).
528. *Halichoeres nebulosus* (Cuvier & Valenciennes). Cuyo; Cuyu (Jordan & Richardson).
529. *Halichoeres miniatus* (Kuhl & Van Hasselt). Luzon (Peters, C); Negros (Jordan & Seale, B); Cavite (Jordan & Seale, A); Calayan (Jordan & Richardson; Bacon (Evermann & Seale, A).
530. *Halichoeres pseudominiatus* (Bleeker). Cavite (Jordan & Seale, A); Negros (Jordan & Seale, A).
531. *Halichoeres hyrtli* Bleeker. Manila (Jordan & Seale, A).
532. *Halichoeres alternans* (Cartier). Cebu; Panglao (Cartier).
PlatyGLOSSUS alternans Cartier, Verh. Ges. Würzburg, 1873, 104; *Cebu & Panglao, P. I.*
533. *Halichoeres ubayensis* (Cartier). Bolo (Cartier).
(*PlatyGLOSSUS ubayensis* Cartier, Verh. Ges. Würzburg, 1873, 104; *Bohol, P. I.*)
534. *Halichoeres pseudogramma* (Cartier). Bohol (Cartier).
(*PlatyGLOSSUS pseudogramma* Cartier, Verh. Ges. Würzburg, 1873, 103; *Bohol, P. I.* (Name changed to *P. pseudogrammicus* by Palacky.)
535. *Halichoeres reticulatus* (Cartier). Cebu (Cartier).
PlatyGLOSSUS reticulatus Cartier, Verh. Ges. Würzburg, 1873, 104, *Cebu, P. I.*

CHEILIO Lacépède.

536. *Cheilio inermis* (Forskål). Philippine Islands (Günther). Negros (Jordan & Seale, B); Bacon (Evermann & Seale, A); Cuyo (Jordan & Richardson); Zamboanga (Seale & Bean).

THALASSOMA Swainson. (*Julis* Günther; not of Cuvier.)

537. *Thalassoma dorsale* (Quoy & Gaimard). Philippine Islands (Günther); Manila (Jordan & Seale, A); Cagayancillo (Jordan & Richardson).
538. *Thalassoma güntheri* (Bleeker). Calayan (Jordan & Richardson).
539. *Thalassoma umbrostigma* (Rüppell). Calayan (Jordan & Richardson).
540. *Thalassoma lunare* (Linnæus). Cavite (Jordan & Seale, A); Bacon (Evermann & Seale, A).
541. *Thalassoma truncatum* Cartier. Cebu (Cartier).
(*Julis truncatus* Cartier, Verh. Ges. Würzburg, 1873, 104; *Cebu, P. I.*)

CHEILINUS Lacépède.

542. *Cheilinus digrammus* (Lacépède). Romblon (Jordan & Richardson).
 543. *Cheilinus oxycephalus* Bleeker. Cuyo (Jordan & Richardson).
 544. *Cheilinus trilobatus* (Lacépède). Manila (Jordan & Seale, A); Zamboanga (Seale & Bean).
 545. *Cheilinus rostratus* Cartier. Cebu (Cartier); Panay (Jordan & Seale, A).
 (*Cheilinus rostratus* Cartier, Verh. Ges. Würzburg, 1873, 103; *Cebu*, P. I.)
 546. *Cheilinus fasciatus* (Bloch). Bacon (Evermann & Seale, A).

THALLIURUS Swainson.

547. *Thalliurus chlorurus* (Bloch). Bacon (Evermann & Seale, A); Zamboanga (Seale & Bean).

NOVACULICHTHYS Bleeker.

548. *Novaculichthys macrolepidotus* (Bloch). Negros (Jordan & Seale, B); Bacon (Evermann & Seale, A).
 549. *Novaculichthys kallosomus* (Bleeker). Negros (Jordan & Seale, B).
 550. *Novaculichthys tæniurus* (Lacépède). Cagayancillo (Jordan & Richardson).

HEMIPTERONOTUS Lacépède.

551. *Hemipteronotus pentadactylus* (Lacépède). Manila (Jordan & Seale, A).

Family ODACIDÆ.

PSEUDODAX Bleeker.

552. *Pseudodax moluccanus* (Cuvier & Valenciennes). Bohol (Cartier, spelled *moluccensis*).

Family SCARICHTHYIDÆ.

SCARICHTHYS Bleeker.

553. *Scarichthys auritus* (Kuhl & Van Hasselt). Cagayancillo (Jordan & Richardson); Bacon (Evermann & Seale, A); Zamboanga (Seale & Bean).
 554. *Scarichthys cœruleopunctatus* (Rüppell). Bacon; Bulan; Jolo (Evermann & Seale, A); Zamboanga (Seale & Bean).

CALOTOMUS Gilbert.

555. *Calotomus genistriatus* (Cuvier & Valenciennes). Zamboanga; Jolo (Evermann & Seale, A).
 556. *Calotomus vaigiensis* (Quoy & Gaimard). Negros (Jordan & Seale, B).
 557. *Calotomus moluccensis* (Bleeker). Negros (Jordan & Seale, B); Cuyo (Jordan & Richardson).

CALLYODON Gronow. (*Scarus* Forskål; not of Gronow.)

558. *Callyodon balinensis* (Bleeker). Bacon (Evermann & Seale, A).
 559. *Callyodon oktodon* (Bleeker). Zamboanga (Evermann & Seale, A).
 560. *Collyodon lacerta* (Cuvier & Valenciennes). Bulan; Bacon (Evermann & Seale, A); Panay (Jordan & Seale, A).
 561. *Callyodon quoyi* (Cuvier & Valenciennes). Bacon (Evermann & Seale, A).

562. *Callyodon muricatus* (Cuvier & Valenciennes). Negros (Jordan & Seale, B).
 563. *Callyodon margaritus* (Cartier). Cebu (Cartier).
Pseudoscarus margaritus Cartier, Verh. Ges. Würzburg, 1873, 105; *Cebu*, P. I.
 564. *Callyodon æruginosus* (Cuvier & Valenciennes). Manila (Kner).
 565. *Callyodon eleræ* Jordan & Seale. Cavite (Jordan & Seale, A).
Callyodon eleræ Jordan & Seale, Bull. U. S. Fish Comm., XXVI, 1906, 31, fig. 11; *Cavite*, P. I.
 566. *Callyodon capistratoides* (Bleeker). Cagayancillo (Jordan & Richardson).
(Pseudoscarus dussumieri Bleeker. Not *Scarus dussumieri* (Cuvier & Valenciennes).)
 567. *Callyodon latifasciatus* Seale & Bean. Zamboanga (Seale & Bean).
 568. *Callyodon niger* (Rüppell). Zamboanga (Seale & Bean).
 569. *Callyodon macrorhinus* (Bleeker). Zamboanga (Seale & Bean).
 570. *Callyodon rivulatus* (Cuvier & Valenciennes). Zamboanga (Seale & Bean).
 571. *Callyodon zonularis* Jordan & Seale. Zamboanga (Seale & Bean).

Family TOXOTIDÆ.

TOXOTES Cuvier.

572. *Toxotes jaculatrix* (Pallas). Samar (Peters, C, *Toxotes jaculator*); Mindoro (Jordan & Richardson); Palawan (Vaillant); Zamboanga (Seale & Bean).

Family SCATOPHAGIDÆ.

SCATOPHAGUS Cuvier & Valenciennes.

573. *Scatophagus argus* (Gmelin). Luzon (Peters, C); Cavite (Jordan & Seale, E); Negros (Jordan & Seale, B); Manila; Iloilo (Jordan & Richardson); Bacon, San Fabian (Evermann & Seale, A); Mindanao (Smith & Seale); Zamboanga (Seale & Bean).

Family DREPANIDÆ.

DREPANE Cuvier & Valenciennes.

574. *Drepane punctata* (Gmelin). Philippine Islands (Günther); Cavite (Jordan & Seale, A); Manila; Lubang (Jordan & Richardson).

Family PLATACIDÆ.

PLATAX Cuvier.

575. *Platax orbicularis* (Forskål). Philippine Islands (Günther, as *Platax vespertilio*); Panay (Jordan & Seale, A); Ticao; Cagayancillo (Jordan & Richardson); Jolo (Evermann & Seale, A); Zamboanga (Seale & Bean).

Family SCORPIDÆ.

MONODACTYLUS Lacépède.

576. *Monodactylus argenteus* (Linnæus). Cavite (Jordan & Seale, A); Aparri; Iloilo; Calayan (Jordan & Richardson); Bulan (Evermann & Seale, A).

Family CHÆTODONTIDÆ.

PARACHÆTODON Bleeker.

577. *Parachætodon ocellatus* (Cuvier & Valenciennes). Philippine Islands (Günther, *Chætodon oligacanthus*); Negros (Jordan & Seale, B).
(*Chætodon oligacanthus* Bleeker.)
578. *Parachætodon biocellatus* (Cuvier & Valenciennes). Cavite (Jordan & Seale, A).

GONCHÆTODON Bleeker.

579. *Gonochætodon triangulum* (Cuvier & Valenciennes). Philippines (Jordan & Seale, A); Cagayancillo (Jordan & Richardson).

CHÆTODON Linnaeus.

580. *Chætodon setifer* Forskål. Cagayancillo (Jordan & Richardson); Palawan (Villan).
581. *Chætodon auriga* Forskål. Bacon (Evermann & Seale, A).
582. *Chætodon unimaculatus* Bloch. Bacon (Evermann & Seale, A).
583. *Chætodon kleini* Bloch. Manila (Jordan & Seale, A); Cagayancillo (Jordan & Richardson).
584. *Chætodon ephippium* Cuvier & Valenciennes. Cagayancillo (Jordan & Richardson).
585. *Chætodon punctatofasciatus* Cuvier & Valenciennes. Manila (Jordan & Seale, A).
586. *Chætodon citrinellus* (Broussonet). Cagayancillo (Jordan & Richardson).
587. *Chætodon trifasciatus* Park. Cavite (Jordan & Seale, A); Cagayancillo (Jordan & Richardson).
588. *Chætodon ornatissimus* (Cuvier & Valenciennes). Manila (Jordan & Seale, A).
589. *Chætodon vagabundus* Linnaeus. Bacon (Evermann & Seale, A).
590. *Chætodon octofasciatus* Bloch. Bacon (Evermann & Seale, A).
591. *Chætodon selene* Bleeker. Bulan (Evermann & Seale, A).
592. *Chætodon falcula* Bloch. Bacon (Evermann & Seale, A).

CHELMON Cuvier.

593. *Chelmon rostratus* (Linnaeus). Luzon (Peters, C); Cavite (Jordan & Seale, A).

HENIOCHUS Cuvier & Valenciennes.

594. *Heniochus acuminatus* (Linnaeus). Manila (Cuvier & Valenciennes), fide Dussumier, as *Heniochus macrolepidotus*; Bacon; San Fabian (Evermann & Seale, A).
(*Chætodon macrolepidotus* Linnaeus.)
595. *Heniochus varius* (Cuvier & Valenciennes). Bacon (Evermann & Seale, A).

HOLACANTHUS Lacépède.

596. *Holacanthus bicolor* (Bloch). Manila (Jordan & Seale, A); Cagayancillo (Jordan & Richardson).
597. *Holacanthus diacanthus* (Boddart). Manila (Jordan & Seale, A).
598. *Holacanthus nicobariensis* (Bloch & Schneider). Palawan (Vaillant).

Family ZANCLIDÆ.

ZANCLUS Commerson) Lacépède.

599. *Zanclus cornutus* (Linnaeus). Cagayancillo; Fuga (Jordan & Richardson).

Family HEPATIDÆ.

HEPATUS Gronow 1765. (*Teuthis* Linnaeus 1766; *Theutis* Cuvier; *Acanthurus* Forskål, as restricted by Cuvier; *Harpurus* Forster; *Acronurus* Gronow.)

600. *Hepatus celebicus* (Bleeker). Manila (Jordan & Seale, A); Bulan (Evermann & Seale, A); Zamboanga (Seale & Bean).
 601. *Hepatus olivaceus* (Bloch & Schneider). Cagayancillo (Jordan & Richardson).
 602. *Hepatus lineatus* (Gmelin). Philippine Islands (Günther); Cagayancillo (Jordan & Richardson).
 603. *Hepatus dussumieri* (Cuv. & Val.). Zamboanga (Seale & Bean).
 604. *Hepatus triostegus* (Linnaeus). Cagayancillo (Jordan & Richardson).
 605. *Hepatus matoides* (Cuvier & Valenciennes). Calayan; Aparri (Jordan & Richardson); Zamboanga; Jolo (Evermann & Seale, A).
 606. *Hepatus elongatus* (Cuvier & Valenciennes). Cagayancillo (Jordan & Richardson).

CTENOCHÆTUS Gill.

607. *Ctenochætus striatus* (Quoy & Gaimard). Zamboanga (Evermann & Seale, A).

COLOCOPUS Gill.

608. *Colocopus lambdurus* Gill. Zamboanga (Günther, A); *Acanthurus hepatus* Günther, Südsee, 115, taf. 75; not *Teuthis hepatus* Linnaeus = a West Indian species) *Colocopus lambdurus* Gill, Proc. U. S. Nat. Mus., 1884, 279 (after Günther); *Kingsmill I., Mauritius*.

ZEBRASOMA Swainson.

609. *Zebbrasoma rhombeum* (Kittlitz). Cagayancillo (Jordan & Richardson).

MONOCEROS Bloch & Schneider.

(*Naso* Lacépède; *Naseus* Cuvier & Valenciennes. *Acanthurus* Forskål in part, not as restricted by Cuvier.)

610. *Monoceros annulatus* (Quoy & Gaimard). Zamboanga (Seale & Bean).
 611. *Monoceros tuberosus* (Cuv. & Val). Zamboanga (Seale & Bean).
 612. *Monoceros lituratus* (Forskål). Zamboanga (Seale & Bean).
 613. *Monoceros marginatus* (Cuv. & Val). Zamboanga (Seale & Bean).
 614. *Monoceros unicornis* (Forskål). San Fabian (Evermann & Seale, A).
 615. *Monoceros olivaceus* Solander. Philippine Islands (Günther).

Family SIGANIDÆ.

SIGANUS Forskål. (*Teuthis* Günther, not of Linnaeus, as restricted by Cuvier, or Gill.)

616. *Siganus javus* (Linnaeus). Cavite (Jordan & Seale, A); Manila; Iloilo (Jordan & Richardson); Bulan (Evermann & Seale, A).
 617. *Siganus virgatus* (Cuvier & Valenciennes). Philippine Islands (Günther); Panay (Jordan & Seale, A); Cuyo (Jordan & Richardson); Bacon. (Evermann & Seale, A); Zamboanga (Seale & Bean).

618. *Siganus lineatus* (Cuvier & Valenciennes). Manila (Jordan & Seale, A); Cuyo; Aparri (Jordan & Richardson); Bulan; Bacon (Evermann & Seale, A).
619. *Siganus oramin* (Bloch & Schneider). Cavite (Jordan & Seale, A); Negros (Jordan & Seale, B); Aparri; Cavite (Jordan & Richardson).
620. *Siganus marmoratus* (Quoy & Gaimard). Manila (Jordan & Seale, A); Calayan (Jordan & Richardson).
621. *Siganus vermiculatus* (Kuhl & Van Hasselt). Philippine Islands (Günther); Zamboanga; Bacon; San Fabian (Evermann & Seale, A); Zamboanga; (Seale & Bean).
622. *Siganus tetrazonus* (Bleeker). Manila (Jordan & Seale, A).
623. *Siganus concatenatus* (Cuvier & Valenciennes). Negros (Jordan & Seale, B).
624. *Siganus corallinus* (Cuvier & Valenciennes). Cagayancillo (Jordan & Richardson).
625. *Siganus rostratus* (Cuvier & Valenciennes). Fuga (Jordan & Richardson).
626. *Siganus fuscescens* (Houttuyn). Bacon; Jolo; San Fabian (Evermann & Seale, A); Zamboanga (Seale & Bean).
627. *Siganus albopunctatus* (Temminck & Schlegel). Philippine Islands (Günther); Manila (Kner).

LO Seale. (*Lo* Seale, Bull. U. S. Bur. Fish., XXV, 1905, 360 (*vulpinus*).)

628. *Lo unimaculatus* Evermann & Seale. Bacon (Evermann & Seale, A).
Lo unimaculatus Evermann & Seale, Bull. U. S. Bur. Fish., XXVI, 1906, 99, fig. 19; Bacon, *P. I.*

Family TRIACANTHIDÆ.

TRIACANTHUS Cuvier.

629. *Triacanthus strigilifer* Cantor. Philippine Islands (Günther); Negros (Jordan & Seale, B).
630. *Triacanthus oxycephalus* Bleeker. Samar (Peters, C).
631. *Triacanthus blochi* Bleeker. Iloilo; Manila (Jordan & Richardson).

Family BALISTIDÆ.

BALISTES (Artedi) Linnaeus.

632. *Balistes flavimarginatus* Rüppell. Cuyo (Jordan & Richardson); Bacon (Evermann & Seale, A).
633. *Balistes niger* Park. Bacon (Evermann & Seale, A).
634. *Balistes chrysopterus* Bloch & Schneider. Fuga (Jordan & Richardson).

BALISTAPUS Tilesius.

635. *Balistapus verrucosus* (Linnaeus). Philippine Islands (Günther); Zebu (Günther, A); Cagayancillo (Jordan & Richardson). Zamboanga (Seale & Bean).
636. *Balistapus undulatus* (Park). Philippine Islands (Günther, A); Cavite (Jordan & Seale, A); Cagayancillo (Jordan & Richardson); Bacon (Evermann & Seale, A); (= *Balistes lineatus* Bleeker).
637. *Balistapus aculeatus* (Linnaeus). Cuyo (Jordan & Richardson); Bacon; Zamboanga (Evermann & Seale, A).
638. *Balistapus rectangulus* (Bloch & Schneider). Calayan (Jordan & Richardson).

Family MONACANTHIDÆ.

CANTHERINES Swainson.

639. *Cantherines sandwichiensis* (Quoy & Gaimard). Romblon (Jordan & Richardson); Cebu (Günther, A, *Monacanthus pardalis*.)
 640. *Cantherines macrurus* (Bleeker). Negros (Jordan & Seales, B); Bacon; Jolo (Evermann & Seale, A).
 641. *Cantherines tessellatus* (Günther). Philippine Islands, Sta. 204, 115 fath. (Günther, A).

MONACANTHUS Cuvier.

642. *Monacanthus tomentosus* (Linnæus). Cuyo; Lubang (Jordan & Richardson); Panay; Manila (Jordan & Seale, A, *M. nemurus*, not of Linnæus); Palawan (Vaillant).
 643. *Monacanthus chinensis* (Bloch). Manila (Jordan & Seale, A); Negros (Jordan & Seale, B); Iloilo (Jordan & Richardson); Bulan (Evermann & Seale, A).
 644. *Monacanthus surothura* Van Hasselt. Negros (Jordan & Seale, B); (perhaps equals *Monacanthus hajam* Bleeker).

OSBECKIA Jordan & Evermann.

645. *Osbeckia scripta* (Osbeck). Jolo (Evermann & Seale, A).

ALUTERA (Cuvier) Oken.

646. *Alutera monoceros* (Osbeck). Manila (Jordan & Seale, A).

Family TETRAODONTIDÆ.

SPHEROIDES (Lacépède) Duméril.

647. *Spheroides lunaris* (Bloch). Philippine Islands (Günther, var. *spadiceus*); Cavite (Jordan & Seale, A); Negros (Jordan & Seale, B) Manila; Iloilo (Jordan & Richardson); San Fabian (Evermann & Seale, B); Zamboanga (Seale & Bean).
 648. *Spheroides ocellatus* (Osbeck). Manila (Jordan & Seale, A); Negros (Jordan & Seale, B).
 649. *Spheroides hypselogenion* (Bleeker). Bulan (Evermann & Seale, A).
 650. *Spheroides scleratus* (Forster). Philippine Islands (Günther).

TETRAODON Linnæus.

651. *Tetraodon hispidus* Linnæus. Manila; Panay (Jordan & Seale, A); Cuyo (Jordan & Richardson).
 652. *Tetraodon reticularis* Bloch & Schneider. Cavite (Jordan & Seale, A); Negros (Jordan & Seale, B); Lubang (Jordan & Richardson); Zamboanga (Seale & Bean).
 653. *Tetraodon nigropunctatus* Bloch & Schneider. Bacon (Evermann & Seale, A).
 654. *Tetraodon immaculatus* Bloch & Schneider. Philippine Islands (Günther, var. *virgata*; Günther, A); Manila (Procé); Cavite (Jordan & Seale, A); Negros (Jordan & Seale, B); Lubang; Iloilo; Cuyo; Ticao (Jordan & Richardson); Manila (Evermann & Seale, A); Zamboanga (Seale & Bean).

655. *Tetraodon fluviatilis* Hamilton-Buchanan. Philippine Islands (Günther); Manila (Procé), *T. nigroviridis*=*fluviatilis* fide Bleeker, Atlas).

CHELONODON Müller.

656. *Chelonodon patoca* (Hamilton-Buchanan). Philippine Islands, Sta. 203, (Günther, A); Manila (Jordan & Richardson); Mindanao (Smith & Seale); Zamboanga (Seale & Bean).

CANTHIGASTER Swainson.

657. *Canthigaster compressus* (Procé). Manila (Procé); Philippine Islands (Günther, *Tetrodon striolatus*); Cavite (Jordan & Seale, A); Negros (Jordan & Seale, B); Philippines (Evermann & Seale, A); Zamboanga (Evermann & Seale, B); Zamboanga (Seale & Bean).
658. *Canthigaster bennetti* (Bleeker). Bacon (Evermann & Seale, A).

Family **DIODONTIDÆ**.

DIODON Linnaeus.

659. *Diodon holacanthus* Linnaeus. Sulu Sea (Günther, *Diodon maculatus*, var.).
660. *Diodon hystrix* Linnaeus. Luzon (Peters, C) *Diodon punctatus*.

CHILOMYCTERUS Bibron.

661. *Chilomycterus orbicularis* (Bloch). Straits near Cebu (Günther, A).

Family **OSTRACIIDÆ**.

OSTRACION Linnaeus.

662. *Ostracion tuberculatum* Linnaeus. Cavite (Jordan & Seale, A); Jolo (Evermann & Seale, A).
663. *Ostracion gibbosum* Linnaeus. Cavite (Jordan & Seale, A); Jolo (Evermann & Seale, A).
664. *Ostracion cornutum* Linnaeus. Cavite (Jordan & Seale, A); Negros (Jordan & Seale, B).

Family **GOBIIDÆ**.

BOSTRYCHUS Lacépède.

665. *Bostrychus sinensis* (Lacépède). Manila (Kner).

VALENCIENNEA Bleeker.

666. *Valenciennaea muralis* (Quoy & Gaimard). Cuvier & Valenciennes. Philippine Islands (Günther).
667. *Valenciennaea strigata* (Broussonet). Bacon (Evermann & Seale, A).
668. *Valenciennaea violifera* Jordan & Seale. Negros (Jordan & Seale, B).
Valenciennaea violifera Jordan & Seale, Bull. U. S. Bur. Fish. XXV, 1905, 383; Samoa.
Valenciennaea species, Jordan & Seale, Proc. U. S. Nat. Mus., XXVIII, 1905, 794; Negros.

ELEOTRIS Gronow.

669. *Eleotris fusca* (Bloch & Schneider). Luzon, Samar (Peters, C); Palawan (Boulenger, A); Sibuyan; Aparri (Jordan & Richardson).

OPHIOCARA Gill.

670. **Ophiocara aporos** (Bleeker). Samar (Peters, C); Palawan; Balabac (Boulenger, A); Mindoro; Sibuyan (Jordan & Richardson).
671. **Ophiocara porocephala** (Cuvier & Valenciennes). Philippine Islands (Günther, *Eleotris ophiocephalus*); Luzon (Peters, C, *E. ophiocephalus*); Calayan; Mindoro (Jordan & Richardson); Zamboanga (Seale & Bean).
(Not *Eleotris ophiocephalus* of Day.)
672. **Ophiocara laglaizi** (Sauvage). Manila (Sauvage, B).
Eleotris laglaizi Sauvage, Bull. Soc. Philomath., 1880, 54; *Manila*, P. I.

BUTIS Bleeker.

673. **Butis butis** (Hamilton-Buchanan). Philippine Islands (Günther, in part); Palawan (Boulenger, A); Manila; Iloilo (Jordan & Richardson); Negros (Jordan & Seale, A, *Butis leucurus*); Cavite (Jordan & Seale, A, *Butis leucurus*); Bacon (Evermann & Seale, A, *Butis leucurus*); Palawan (Vaillant).
Butis leucurus Jordan & Seale, Proc. U. S. Nat. Mus., XXVIII, 1905, 794, fig. 13; *Negros*.
674. **Butis koilomatodon** (Bleeker). Iloilo (Jordan & Richardson); Cavite (Jordan & Seale, A, *Butis serrifrons*).
(*Eleotris caperatus* Cantor, Cat. Mal. Fishes, 1850, 1179; Sea of Pinang.)
(*Prionobutis serrifrons* Rutter, Proc. Ac. Nat. Sci. Phila., 1897, 84; Swatow, China.)
675. **Butis amboinensis**, Bleeker. Mindoro (Jordan & Richardson). (Probably not *Eleotris amboinensis* of Day.)
676. **Butis prismaticus** (Bleeker). Cuyo; Manila (Jordan & Richardson).

ODONTOBUTIS Bleeker.

677. **Odontobutis obscurus** (Peters). Zamboanga (Seale & Bean).

ASTERROPTERIX Rüppell. (*Brachyeleotris* Beeker.)

678. **Asterropteryx everetti** Boulenger. Palawan (Boulenger, A).
(*Asterropteryx everetti* Boulenger, Ann. Mag. Nat. Hist. (6) XV, 186; Palawan, P. I.)

HYPSELEOTRIS Gill.

679. **Hypseleotris cyprinoides** (Cuvier & Valenciennes). Negros (Jordan & Seale, B).
(Not *Eleotris cyprinoides* of Günther=*Asterropteryx güntheri* Bleeker.)
680. **Hypseleotris modestus** (Bleeker). Mindoro (Jordan & Richardson).

PERIOPHTHALMUS Bloch & Schneider.

681. **Periophthalmus barbarus** (Linnaeus). Negros (Jordan & Seale, B); Ticao; Aparri (Jordan & Richardson); Panay (Jordan & Seale, A, *P. chrysospilus*).

[We are unable to separate the nominal species of this genus and think it doubtful if more than one can be defined.]

PERIOPHTHALMODON Gill.

682. *Periophthalmodon schlosseri* Bloch. Cavite (Jordan & Seale, A).

SCARTELAOS Swainson.
(*Boleops* Gill).

683. *Scartelaos viridis* (Hamilton-Buchanan). Negros (Jordan & Seale, B, fig.).

GNATHOLEPIS Bleeker.

684. *Gnatholepis calliurus* Jordan & Seale. Negros (Jordan & Seale, B).
Gnatholepis calliurus Jordan & Seale, Proc., U. S. Nat. Mus., XXVIII, 1905, 796, fig. 14; *Negros*.
685. *Gnatholepis deltoides* (Seale). Negros (Jordan & Seale, B).
Gobius deltoides Seale, Occ. Papers Bishop Mus., I, 1901, No. 3, 125; Guam.
686. *Gnatholepis* (?) *sternbergi*¹ (Smith). Lake Buhi, P. I. (Smith); Zamboanga (Seale & Bean).

OPLOPOMUS Steindachner. (*Centrogobius* Bleeker; not
Oplopoma Girard.)

687. *Oplopomus vergens* Jordan & Seale. Cavite (Jordan & Seale, A).
Oplopomus vergens Jordan & Seale, Bull. U. S. Bur. Fish., XXVI, 1906, 44, fig. 17; *Cavite*.

RUPPELLIA Swainson. (*Paragobiodon* Bleeker.) (Printed *Ruppellia*
and *Rupellia* by Swainson by an "error in transcription.")

688. *Ruppellia echinocephala* (Rüppell). Cebu (Günther, C).
689. *Ruppellia melanosoma* (Bleeker). Luzon (Peters, C); Manila (Jordan & Seale, A, *Paragobiodon*).

DROMBUS Jordan & Seale. (*Drombus* Jordan & Seale, Proc. U. S.
Nat. Mus., XXVIII, 1905, 797 (*palackyi*).)

690. *Drombus palackyi* Jordan & Seale. Negros (Jordan & Seale, B); Zamboanga (Seale & Bean).
Drombus palackyi Jordan & Seale, Proc. U. S. Nat. Mus., XXVIII, 1905, 797, fig. 15; *Negros*.

RHINOGOBIUS Gill. (*Ctenogobius* Jordan & Snyder, not of Gill;
Coryphopterus Gill; *Porogobius* and *Accentrogobius* Bleeker.)

691. *Rhinogobius nebulosus* (Forskål). Panay; Cavite (Jordan & Seale, A, *R. nebulosus* and *lungi*); Manila; Aparri (Jordan & Richardson).
Gobius criniger Cuvier & Valenciennes, and of Günther and Day.
Rhinogobius lungi Jordan & Seale, Bull. U. S. Bur. Fish., XXVI, 1906, 41, fig. 13; *Cavite*, P. I.
692. *Rhinogobius caninus* (Cuvier & Valenciennes). Negros (Jordan & Seale, B). Iloilo; Lubang (Jordan & Richardson).

¹Dorsal V-8; Anal 8; scales 25-26; *checks and opercles covered with large scales*; teeth in upper jaw in three irregular rows; in lower jaw in a band, some canine-like; caudal bluntly rounded, not elongated; tongue not described; pectoral rays not silk-like. (Smith.)

693. **Rhinogobius baliuroides** (Bleeker). Aparri (Jordan & Richardson).
 694. **Rhinogobius calderæ** (Evermann & Seale). Mindanao (Evermann & Seale, B).

Gobius calderæ Evermann & Seale, Proc. U. S. Nat. Mus., XXXI, 1906, 511, fig. 3; *Caldera Bay, Mindanao*. Since the publication of the original description, Dr. Evermann has written us that the upper pectoral rays of this species are not silk-like. It is evidently a *Rhinogobius*.

ZONOGOBIOUS Bleeker.

695. **Zonogobius semidoliatus** (Cuvier & Valenciennes). Negros (Jordan & Seale, B).

CREISSON Jordan & Seale. (*Creisson* Jordan & Seale, Bull. U. S. Bur. Fish. XXVI, 1906, 43 (*validus*).)

696. **Creisson validus** Jordan & Seale. Cavite (Jordan & Seale, A).
Creisson validus Jordan & Seale, Bull. U. S. Bur. Fish., XXVI, 1906, 43, fig. 16; *Cavite, P. I.*

MISTICHTHYS Smith. (*Mistichthys* Smith, Bull. U. S. Bur. Fish., XXI, 1901, 167 (*luzonensis*).)

This genus seems to be chiefly distinguished by its very short and low spinous dorsal. The teeth are curved and uniserial.

697. **Mistichthys luzonensis** Smith. Lake Buhi (Smith).
Mistichthys luzonensis Smith, Bull. U. S. Bur. Fish., XXI, 1901, 167, fig.; *Lake Buhi, P. I.*

GOBIOUS (Artedi) Linnæus.

698. **Gobius ornatus** Rüppell. Philippine Islands (Günther); Luzon (Peters, C.); Ticao (Jordan & Richardson); Palawan (Vaillant).
 699. **Gobius oligolepis** Bleeker. Luzon (Peters, C).
 700. **Gobius ophthalmotænia** Richardson; Panay (Jordan & Seale, A).

MAPO Smitt. (*Mapo* Smitt, Afh. Vet. Kong. Ak. Stockholm, 1899, 543 (*soporator*).)

701. **Mapo fuscus** (Rüppell). Cavite (Jordan & Seale, A.); Zamboanga (Seale & Bean).

Gobius albopunctatus Cuvier & Valenciennes, Hist. Nat. Poiss., XII, 57, 1837; *Ile de France*.

Gobius soporator Cuv. & Val.

702. **Mapo mearnsi** Evermann & Seale. Mindanao (Evermann & Seale, B).
Mapo mearnsi Evermann & Seale. Proc. U. S. Nat. Mus., XXXI, 1906, 510, fig. 2; *Zamboanga, Mindanao, P. I.*

GLOSSOGOBIOUS Gill.

703. **Glossogobius giuris** (Hamilton-Buchanan). Philippine Islands (Günther); Luzon; Leyte (Peters, C); Palawan (Boulenger, A) Bacon; San Fabian; Bulan (Evermann & Seale, A); Mindanao (Smith & Seale); Mindoro; Aparri; Iloilo (Jordan & Richardson).

Gobius giuris (Günther), Cat. Fishes, III, 1861, 21 (in part only, *Gobius fasciato-punctatus* (Richardson) being identical with *Glossogobius brunneus* (Temminck & Schlegel)); not *Gobius giuris* of Rutter, which equals *Glossogobius brunneus* (Temminck & Schlegel); nor of Abbott, which equals *Rhinogobius giurinus* (Rutter).)

704. **Glossogobius biocellatus** (Cuvier & Valenciennes). Bacon (Evermann & Seale, A); Mindanao (Smith & Seale).
 705. **Glossogobius obscuripinnis** (Peters). Luzon (Peters, C).
Gobius obscuripinnis Peters, Monatsber. Akad. Wiss. Berl., 1868, 263;
Bicol R., Province of *Albay*, and creeks in *Luzon*.
 706. **Glossogobius aglestes** Jordan & Seale. Negros (Jordan & Seale, B).
Glossogobius aglestes, Jordan & Seale, Proc. U. S. Nat. Mus., XXVIII, 1905,
 798, fig. 16; Negros. This species has the short snout and coloration
 (for the most part) of *Glossogobius obscuripinnis* Peters, and may not
 be different.
 707. **Glossogobius pavo** (Steindachner). Philippine Islands (Steindachner, B).
Gobius pavo (*Glossogobius*?) Steindachner S. B. Ak. Wien., 1867, 715,
Philippine Islands.

Dorsal VI-1, 8, scales 31; head broad, depressed; lower jaw project-
 ing; teeth in outer row in both *jaws enlarged*; *pectoral without silky*
rays; ventrals ("ventral-scheibe") half length of head; (This appar-
 ently means that the ventrals are united.) *Scales increasing in size*
backward; upper part of head, behind eyes, scaled, as well as upper
 part of opercle; rest of head naked, *crossed lengthwise and crosswise*
 by (rows of) sensory pores; color gold brown, each side with four large
 black spots. (Steindachner l. c.)

ILLANA Smith & Seale. (*Illana* Smith & Seale, Proc. Biol. Soc.
 Wash., XIX, 1906, 79, (*cacabet*).)

708. **Illana cacabet** Smith & Seale. Mindanao (Smith & Seale).
Illana cacabet Smith & Seale, Proc. Biol. Soc. Wash., XIX, 1906, 79, fig;
Rio Grande in Mindanao.

AWAOUS Steindachner.

709. **Awaous ocellaris** (Broussonet). Mindoro (Jordan & Richardson).
 710. **Awaous grammepomus** (Bleeker). Palawan (Boulenger, A).
 711. **Awaous lacrymosus**¹ (Peters). Quingoa R., in Luzon (Peters, C).

AMBLYGOBIUS Bleeker. (*Amblygobius* Bleeker, Arch. Neerl., 1875, 322
 (*sphinx*). *Odontogobius* Bleeker, Arch. Neerl., 1875, 323 (*bynoensis*).)

712. **Amblygobius bynoensis** (Richardson). Luzon (Peters, C); Negros, (Jordan
 & Seale, B).
 713. **Amblygobius phalæna** (Cuvier & Valenciennes). Cagayancillo (Jordan &
 Richardson).
 714. **Amblygobius sphinx** (Cuvier & Valenciennes). Negros (Jordan & Seale, B).

EXYRIAS Jordan & Seale.

715. **Exyrias puntang** (Bleeker). Palawan (Vaillant).

We do not know whether this is the *Gobius puntang* of Bleeker,
 Natuurk. Tydschr. Nederl. Ind. III, page 692, or the *G. puntang* of
 Bleeker, Riouw, page 486, said to be different species by Dr. Günther.
Gobius puntang of Bleeker is said by Dr. Günther to equal *G. puntang-*
oides Bleeker, Ceram. III, page 242 (= *Exyrias puntangoides* of Jordan
 & Seale, Samoa, p. 405).

¹ Dorsal VI-I, 10; anal I, 10; Scales 52-55; eyes one eye apart; maxillary
 to middle of eye; no canines; outer row of teeth enlarged; head naked behind
 eyes except for a few scales on upper part of opercle and preopercle; scales on nape
 smaller; pectoral without silk-like rays. (Peters.)

WAITEA Jordan & Seale. (*Waitea* Jordan & Seale, Bull. U. S. Bur. Fish., XXV, 1905, 407 (*mystacina*).)

716. **Waitea mystacina** (Cuvier & Valenciennes). Aparri (Jordan & Richardson).

APARRIUS Jordan & Richardson. (*Aparrius* Jordan & Richardson, Bull. U. S. Bur. Fish., XXVI, 1908, p. 278, (*acutipinnis*).)

717. **Aparrius acutipinnis** (Cuvier & Valenciennes). Mindanao (Smith & Seale); Cavite (Jordan & Seale, A. *Rhinogobius ocyurus*); Aparri (Jordan & Richardson).

Rhinogobius ocyurus Jordan & Seale, Bull. U. S. Fish Comm., XXVI, 1906, 42, fig. 14, *Cavite, P. I.*

Acentrogobius acutipinnis Smith & Seale. Proc. Bio. Soc. Wash., XIX, 1906, fig. 81; *Mindanao, P. I.*

Aparrius acutipinnis Jordan & Richardson, Bull. U. S. Bur. Fish, XXVI, 1908, p. 278; *Aparri, P. I.*

Gobius (Acentrogobius) acutipinnis Day, Fishes, India, 1878-1888, 292, pl. LXI, fig. 2; *seas of India to Andamans.*

GOBIICHTHYS Klunzinger. (*Pselaphias* Jordan & Seale.) *Gobiichthys* Klunzinger, Fische des Rothen Meeres, 1871, 479 (*petersii*).

Except in the presence of a tentacle over the eye this genus does not differ from *Oxyurichthys* Bleeker.

718. **Gobiichthys tentacularis** (Cuvier & Valenciennes). Cavite (Jordan & Seale, A. *Oxyurichthys tentacularis*); Iloilo; Aparri (Jordan & Richardson).

OXYURICHTHUS Bleeker.

The genus *Oxyurichthys* (*belosso*) differs from *Gobiichthys* Klunzinger (*Pselaphias*, Jordan & Seale) in lacking a tentacle over the eye and from *Gobiichthys* Girard, in having the upper teeth in a single series and the tongue convex.

719. **Oxyurichthys cristatus** (Day). Iloilo (Jordan & Seale, A); San Fabian (Evermann & Seale, A); Cagayancillo (Jordan & Richardson).

720. **Oxyurichthys papuensis** (Cuvier & Valenciennes). Negros (Jordan & Seale, B).

721. **Oxyurichthys argulus**¹ (Peters). Luzon (Peters, C).

Gobius argulus Peters, Monatsber. Akad. Wiss. Berl., 1868, 263; *Luzon, P. I.*

- 721a. **Oxyurichthys (?) filifer** Cuvier & Valenciennes. Palawan (Vaillant).

GOBIOSOMA Girard.

722. **Gobiosoma marmoratum** (Peters). Samar (Peters, C).

Gobiosoma marmoratum Peters, Monatsber. Akad. Wiss. Berl., 1868, 267; *Samar, P. I.* The generic relations of this scantily described species are uncertain. It is doubtless not a *Gobiosoma*.

¹ Dorsal VI-I, 12; anal 7; scales very small; canines in upper and lower jaws; caudal pointed; near *Gobius arabicus*. (Peters.)

SICYOPTERUS Gill.

723. *Sicyopterus tæniurus* (Günther). Mindoro (Jordan & Richardson).
 724. *Sicyopterus cynocephalus* (Cuvier & Valenciennes). Palawan (Boulenger, A).

TRYPAUCHENICHTHYS Bleeker.

725. *Trypauchenichthys typus* (Bleeker). Cagayancillo (Jordan & Richardson).

CARAGOBIUS Smith & Seale. (*Caragobius* Smith & Seale, Proc. Biol. Soc. Wash., XIX, 1906, 81. (*typhlops*).)

726. *Caragobius typhlops* Smith & Seale. Mindanao (Smith & Seale.)
Caragobius typhlops Smith & Seale, Proc. Biol. Soc. Wash., XIX, 1906, 81, fig.; *Rio Grande, Mindanao, P. I.*

GOBIOIDES Lacépède.

727. *Gobioides brachygaster* (Günther). Aparri (Jordan & Richardson).

Gobiidæ: Species incertæ sedis:

728. (*Gobius*) *dispar* Peters, Monatsber. Akad. Wiss. Berl., 1868, 263; *Luzon*. Dorsal VI-I, 7; anal I, 7; scales 23-30; in form like an *Apogon*; eyes an eye apart; mouth large, maxillary to back of preopercle in males; no canines; outer row of teeth enlarged. Habitat, lakes and rivers of Luzon. (Peters.) Perhaps a *Glossogobius*.
 729. (*Gobius*) *viganensis*, Steindachner, S. B. Ak. Wien, CII, 1893, 230; *Philippine Islands*. Description not seen by us.

Family **ECHENEIDÆ**.**ECHENEIS** Linnaeus.

730. *Echeneis naucrates* (Linnaeus). Manila (Jordan & Seale, A); Bulan (Evermann & Seale, A).

Family **SCORPAENIDÆ**.**MERINTHE**¹ Snyder.

731. *Merinthe nematophthalma* (Günther). Philippine Islands, Sta. 201 (Günther, A).

LIOSCORPIUS Günther.

732. *Lioscorpius longiceps* Günther. Philippine Islands (Günther, A).
Lioscorpius longiceps Günther, Shore Fishes Challenger, p. 40, pt. XVII, fig. C.; *Ki. Islands*.

SEBASTOPSIS Gill.

733. *Sebastopsis marmorata* (Cuvier & Valenciennes). Manila (Kner).
 734. *Sebastopsis guamensis* (Quoy & Gaimard). Calayan (Jordan & Richardson).
 (= *Sebastes polylepsis* Bleeker.)
 735. *Sebastopsis scabra* (Ramsay & Ogilby). Cavite (Jordan & Seale, A); Negros (Jordan & Seale, B); Bacon (Evermann & Seale, A).

¹ Listed as *Merinthe* Jordan & Evermann in Samoan Report. The name was a MS. name of Jordan & Evermann, adopted by Snyder.

HYPOMACRUS Evermann & Seale.

736. **Hypomacrus albaiensis** Evermann & Seale. Bacon (Evermann & Seale, A).
Hypomacrus albaiensis Evermann & Seale, Bull. U. S. Fish Comm., XXVI,
 1906, p. 102, fig. 20. Bacon, Philippine Islands.

SCORPÆNOPSIS Bleeker.

737. **Scorpænopsis novæ-guineæ** (Cuvier & Valenciennes). Cavite (Jordan & Seale, A); Negros (Jordan & Seale, B).
 738. **Scorpænopsis cirrhosa** (Thunberg). Panay (Jordan & Seale, A).

SEBASTAPISTES Gill.

739. **Sebastapistes tristis** (Klunzinger). Panay (Jordan & Seale, A); Bacon (Evermann & Seale, A).
 740. **Sebastapistes nuchalis** (Günther). Calayan (Jordan & Richardson).
Scorpæna nuchalis Günther, Sudsee, I, 76; Rarotonga.
 741 (742). **Sebastapistes nivifer** Jordan & Seale. Negros (Jordan & Seale, B).
Sebastapistes nivifer Jordan & Seale, Proc. U. S. Nat. Mus., XXVIII,
 1905, 791, fig. 10; *Negros, P. I.*

SYNANCEIA Bloch & Schneider.

743. **Synanceia horrida** (Linnaeus). Zamboanga (Seale & Bean).

PTEROIS Cuvier.

744. **Pterois zebra** (Cuvier & Valenciennes). Bacon (Evermann & Seale, A).
 745. **Pterois volitans** (Linnaeus). Bacon (Evermann & Seale, A).

DECTERIAS Jordan & Starks.

746. **Decterias pusillus** (Temminck & Schlegel). Panay (Jordan & Seale, A).

PARACENTROPOGON Bleeker.

747. **Paracentropogon longispinis** (Cuvier & Valenciennes). Philippine Islands,
 Sta. 203 (Günther, A); Cuyo (Jordan & Richardson).
 748. **Paracentropogon indicus** (Day). Cuyo (Jordan & Richardson).

AMBLYAPISTUS Bleeker.

749. **Amblyapistus crista-galli** (Günther). Philippine Islands (Günther).
 [Said by Bleeker (Mem. Spec. Insul. Scorpæn.) to be a synonym of *A. tarnionotus* (C. V.)]

VESPICULA Jordan & Richardson, new genus, type *Prosopodasys gogorzæ* (Jordan & Seale). (*Prosopopasys* of Günther, not of Cantor, who gives the name *Prosopodasys*, as a substitute for *Apistus*, changed on account of the prior *Apistis*.)

750. **Vespacula gogorzæ** (Jordan & Seale). Negros (Jordan & Seale, B).
Prosopodasys gogorzæ Jordan & Seale, Proc. U. S. Nat. Mus., XXVIII, 1906,
 792, fig. 11; *Negros, P. I.*

TETRAROGÉ Günther.

751. **Tetraroge barbata** (Cuvier & Valenciennes). Aparri (Jordan & Richardson).

Family PLATYCEPHALIDÆ.

PLATYCEPHALUS Bloch.

752. *Platycephalus indicus* (Linnæus). Cavite (Jordan & Seale, A, *P. insidiator*); Negros (Jordan & Seale, B, *P. insidiator*); Manila (Jordan & Richardson); San Fabian (Evermann & Seale, A, *P. insidiator*); Manila (Evermann & Seale, B, *P. insidiator*); (equals *Cottus insidiator* Forskål).

THYSANOPHRYS Ogilby. (*Insidiator* Jordan & Snyder.)

753. *Thysanophrys isacanthus* (Cuvier & Valenciennes). Cavite (Jordan & Seale, A).
754. *Thysanophrys crocodilus* (Tilesius). Cavite (Jordan & Seale, A, *Platycephalus punctatus*).
755. *Thysanophrys bataviensis* (Bleeker). Jolo (Evermann & Seale, A).
756. *Thysanophrys macracanthus* (Bleeker). Manila (Jordan & Seale, A); San Fabian (Evermann & Seale, A).
757. *Thysanophrys tentaculatus* (Rüppell). Cuyo (Jordan & Richardson).

ELATES Jordan & Seale.

758. *Elates thompsoni* Jordan & Seale. Manila (Jordan & Seale, A).
Elates thompsoni Jordan & Seale, Bull. U. S. Fish Comm., XXVI, 1906, 39, fig. 12; *Manila*, P. I.

Family COTTIDÆ.

TRACHYDERMUS Heckel. (*Centridermichthys* Richardson).

759. *Trachydermus fasciatus*¹ Heckel. Philippine Islands (Heckel, B); Manila (Günther, C). (= *T. ansatus* Richardson from China.)
Trachydermus fasciatus Heckel, Ann. Wiener, Mus., II, 1840, 160, pl. IX, fig. 1, 2; *Philippines*.

Family TRIGLIDÆ.

LEPIDOTRIGLA Günther.

760. *Lepidotrigla eydouxii* Sauvage. Manila (Sauvage).
Lepidotrigla eydouxii Sauvage, Nouv. Arch. Mus., 1878, 156; *Manila*, P. I.

Family DACTYLOPTERIDÆ.

EBISINUS Jordan & Richardson.

761. *Ebisinus cheirophthalmus* (Bleeker). Manila; Cavite (Jordan & Seale, A).

Family PLEURONECTIDÆ.

PSETTODES Bennett.

762. *Psettodes erumei* (Bloch). Cavite (Jordan & Seale, A); San Fabian (Evermann & Seale, A).

¹ It is extremely improbable that this species, native in the mountain springs of Kiusiu, Japan, and in China, is found in the Philippines.

PSEUDORHOMBUS Bleeker. (*Ancylosetta* Gill).

763. **Pseudorhombus javanicus** (Bleeker). Cavite (Jordan & Seale, A, *P. polyspilus*, not of Bleeker); Bulan (Evermann & Seale, A).
 764. **Pseudorhombus arsius** (Hamilton-Buchanan). Cavite (Jordan & Seale, A); Philippines (Günther, A, *P. russelli*); Bulan (Evermann & Seale, A, *P. russellii*), (= *Platessa russelli* Gray).
 765. **Pseudorhombus polyspilus** (Bleeker). Cavite (Jordan & Seale, A); Iloilo; Manila (Jordan & Richardson).
 766. **Pseudorhombus neglectus** (Bleeker). San Fabian (Evermann & Seale, A).
 767. **Pseudorhombus malayanus** Bleeker. Manila (Jordan & Richardson).
 768. **Pseudorhombus palad** Evermann & Seale. Bulan (Evermann & Seale, A).
Pseudorhombus palad Evermann & Seale, Bull. U. S. Bur. Fish., XXVI, 1906, 105, fig. 21, *Bulan*, P. I.

PLATOPHRYS Swainson.

769. **Platophrys pantherinus** (Rüppell). Aparri (Jordan & Richardson); Bacon (Evermann & Seale, A).
 770. **Platophrys mancus** (Broussonet). Malanipa, near Zamboanga (Günther, A, *Rhomboidichthys pavo*).

SCÆOPS Jordan & Starks.

771. **Scæops pœcilura** (Bleeker). Negros (Jordan & Seale, B).
 772. **Scæops orbicularis** (Bleeker). Cavite (Jordan & Seale, A).
 773. **Scæops spilura** (Günther). Straits of Cebu (Günther, A).
Rhomboidichthys spilurus Günther, Shore Fishes Challenger, p. 53, pl. XXI, fig. A.; *Straits of Cebu*, P. I.

Family SOLEIDÆ.

AMATE Jordan & Starks.

774. **Amate hartzfeldi** (Bleeker). Philippines (Evermann & Seale, A).
 775. **Amate thepassii** (Bleeker). Mindanao (Smith & Seale).

PARDACHIRUS Günther.

776. **Pardachirus pavoninus** (Lacépède). Bacon (Evermann & Seale, A).

SOLEICHTHYS¹ Bleeker.

777. **Soleichthys heterorhinos** (Bleeker). Bacon (Evermann & Seale, A).

MICROBUGLOSSUS Günther.

778. **Microbuglossus humilis** (Cantor). Cavite (Jordan & Seale, A); Manila (Jordan & Richardson).
 779. **Microbuglossus ovatus** (Richardson). Philippines, Sta. 203 (Günther, A).

¹ Blkr., Enum. Spec. p. 183; for figure of the type (*heterorhinos*) see Day, Fish. India, pl. XCII, fig. 5.

SYNAPTURA¹ Cantor.

- 780 (781). **Synaptura sorsogonensis** Evermann & Seale. Bacon (Evermann & Seale, A); Manila; Lubang (Jordan & Richardson).
Synaptura sorsogonensis Evermann & Seale, Proc. U. S. Fish Comm., XXVI, 1906, 106, fig. 22; Bacon, *P. I.*

CYNOGLOSSUS Hamilton-Buchanan.

782. **Cynoglossus sumatrensis** (Bleeker). Ticao (Jordan & Richardson).
783. **Cynoglossus sindensis** Day. Manila (Jordan & Richardson).
784. **Cynoglossus puncticeps** (Richardson). Philippines, Sta. 203 (Günther, A) Manila (Jordan & Seale, A).
785. **Cynoglossus macrolepidotus** (Bleeker). Manila (Kner).

Family **PTEROPSARIDÆ**.**PARAPERCIS** Bleeker.

786. **Parapercis hexophthalma** (Ehrenberg). Philippines (Jordan & Seale, A); Bacon (Evermann & Seale, A).
787. **Parapercis tetracantha** (Lacépède). Calayan (Jordan & Richardson).
788. **Parapercis cylindrica** (Bloch). Philippine Islands (Günther) Cuyo (Jordan & Richardson); Zamboanga (Seale & Bean).

Family **BATRACHOIDIDÆ**.**CORYZICHTHYS** Ogilby.

789. **Coryzichthys diemensis** (Le Sueur). Cuyo (Jordan & Richardson).

Family **CALLIONYMIDÆ**.**CALLIONYMUS** Linnaeus.

790. **Callionymus sagitta** Pallas. Manila (Jordan & Richardson).
791. **Callionymus curvicornis** Cuvier & Valenciennes. Philippine Islands, Sta. 201 (Günther, A).
792. **Callionymus calauropomus** Richardson. Philippines, Sta. 204 (Günther, A).

CALLIURICHTHYS Jordan & Fowler.

793. **Calliurichthys reevesii** (Richardson). Bulan (Evermann & Seale, A).

SYNCHIROPUS Gill.

794. **Synchiropus ocellatus** (Pallas). Calayan (Jordan & Richardson).

DACTYLOPUS Gill.

795. **Dactylopus dactylopus** (Bennett). Cavite, (Jordan & Seale, A).

¹The name *Brachirus* of Seranison belongs to the closely allied genus *Euryglossa*, as restricted by Swain.

Family RHYACICHTHYIDÆ.

RHYACICHTHYS Boulenger. (*Platyptera* Kuhl & Van Hasselt, preoccupied).

796. **Rhyacichthys aspro** (Kuhl & Van Hasselt). Samar; Leyte (Peters, C).

Family BLENNIIDÆ.

ENNEAPTERYGIUS Rüppell.

797. **Enneapterygius philippinus** (Peters). Luzon (Peters, C); Calayan (Jordan & Richardson).

Tripterygium philippinum Peters, Monatsber. Ak. Wiss. Berl., 1868, 269; Luzon, P. I.

CRISTICEPS Cuvier & Valenciennes.

798. **Cristiceps filifer** Steindachner. Philippine Islands (Steindachner, A).

Cristiceps filifer Steindachner, Archiv. per la Zoologia, vol. III, fasc 1, 1867, 199-200; *Philippine Islands*.

BLENNIUS Linnæus.

799. **Blennius thysanius** Jordan & Seale. Cavite, (Jordan & Seale, A).

Blennius thysanius Jordan & Seale, Bull. U. S. Bur. Fish., XXVI, 1906, 47, fig. 19; *Cavite*, P. I.

HYPLEUROCHILUS Gill.

800. **Hypleurochilus loxias** Jordan & Seale. Negros (Jordan & Seale, B).

Hypleurochilus loxias Jordan & Seale, Proc. U. S. Nat. Mus., XXVIII, 1905, 802, fig. 20; *Negros*, P. I.

ALTICUS (Commerson) Lacépède.

801. **Alticus periophthalmus** (Cuvier & Valenciennes). Samar (Peters, C).

SALARIAS Cuvier.

802. **Salarias edentulus** (Bloch & Schneider). Negros (Jordan & Seale, B); Calayan (Jordan & Richardson).

803. **Salarias rivulatus** Rüppell. Calayan (Jordan & Richardson).

804. **Salarias fasciatus** (Bloch). Philippine Islands (Günther); Luzon (Peters, C); Negros (Jordan & Seale, B); Cagayancillo (Jordan & Richardson); Bacon (Evermann & Seale, A).

805. **Salarias bilineatus** Peters. Samar (Peters, C).

Salarias bilineatus Peters, Monatsber. Ak. Wiss. Berl., 1868, 269; *Samar*, P. I.

806. **Salarias deani** Jordan & Seale. Negros (Jordan & Seale, B); Calayan (Jordan & Richardson, determination questionable).

Salarias deani Jordan & Seale, Proc. U. S. Nat. Mus., XXVIII, 1905, 799, fig. 17; *Negros*, P. I.

807. **Salarias undecimalis** Jordan & Seale. Negros (Jordan & Seale, B).

Salarias undecimalis Jordan & Seale, Proc. U. S. Nat. Mus., XXVIII, 1905, 800, fig. 18, *Negros*, P. I.

808. **Salarias zamboangæ** Evermann & Seale. Mindanao (Evermann & Seale, B).

Salaris zamboangæ Evermann & Seale, Proc. U. S. Nat. Mus., XXXI, 512, fig. 4; *Mindanao*, P. I.

809. **Salarias holomelas** Günther. Cebu (Günther, C).
Salarias holomelas Günther, Ann. Mag. N. H., 1872, 399; *Cebu, P. I.*
810. **Salarias reyi** Sauvage. Luzon (Sauvage, B).
Salarias reyi Sauvage, Bull. Soc. Philom. (7) IV, 1880, 219; *Luzon, P. I.*
 [No canines.]
811. **Salarias montanoi** Sauvage. Luzon (Sauvage, B).
Salarias montanoi Sauvage, Bull. Soc. Philom. (7) IV, 1880, 219; *Luzon, P. I.* [No canines.]

PETROSCIRTES Rüppell.

812. **Petroscirtes grammistes** Cuvier & Valenciennes. Bacon (Evermann & Seale, A).
813. **Petroscirtes eretes** Jordan & Seale. Panay (Jordan & Seale, A); Manila (Jordan & Seale, A, *P. vulsus*); Negros (Jordan & Seale, B); Cuyo (Jordan & Richardson).
Petroscirtes eretes Jordan & Seale, Proc. U. S. Nat. Mus., XXVIII, 1905, 801, fig. 19; *Negros, P. I.*
Petroscirtes vulsus Jordan & Seale, Bull. U. S. Fish Comm., XXVI, 1906, 48, fig. 20; *Manila, P. I.*

Family CONGROGADIDÆ.

CONGROGADUS Günther. (*Macharium* Richardson, *Hierichthys* Jordan & Fowler.)

814. **Congrogadus subducens** (Richardson). Cuyo (Jordan & Richardson).
815. **Congrogadus hierichthys** Jordan & Richardson. Cuyo (Jordan & Richardson).
Congrogadus hierichthys Jordan & Richardson, Bull. U. S. Bur. Fish., XXVII, 1908, 285; *Cuyo, P. I.*

Family FIERASFERIDÆ.

FIERASFER Cuvier.

816. **Fierasfer homei** Richardson. Cavite (Jordan & Seale A).

ENCHELIOPHIS Müller.

817. **Encheliophis vermicularis** (Müller). Philippine Islands (Müller, Günther). This fish is stated by Dr. Boulenger (Cambridge Nat. Hist., Vol. VII, 625) to be a larval *Fierasfer*.

Family BROTULIDÆ.

DINEMATICTHYS Bleeker.

818. **Dinematichthys iluocoeteoides** Bleeker. Ticao (Jordan & Richardson).

BROTULOPHIS Kaup.

819. **Brotulophis argentistriatus** Kaup. Sulu? (Kaup; Günther, after Kaup).

NEOBYTHITES Goode & Bean.

820. **Neobythites macrops** Günther. Sta. 210 off Philippines (Günther, B).
Neobythites macrops Günther, Deep Sea Fishes Challenger, p. 102, pl. XX, fig. A; *Sta. 210 off Philippines.*

BATHYONUS Günther.

821. **Bathyonus compressus** Günther. Sta. 205, Philippine Islands (Günther, B).
Bathyonus compressus Günther, Ann. Mag. N. H., II, 1878, 20.

ACANTHONUS Günther.

822. **Acanthonus armatus** Günther. Sta. 205, Philippine Islands (Günther, B).
Acanthonus armatus Günther, Ann. Mag. N. H., 11 1878, 22.

Family BREGMACEROTIDÆ.

BREGMACEROS Thompson.

823. **Bregmaceros maclellandii** Thompson. Philippine Islands (Günther).

Family MACROURIDÆ.

TRACHONURUS Günther.

824. **Trachonurus villosus** (Günther). Sta. 214, South of Philippines (Günther, B).
Macrurus villosus Günther, Ann. Mag. N. H., XX, 1877, 441.

BATHYGADUS Günther.

825. **Bathygadus multifilis** Günther. Sta. 214, South of Philippines (Günther, B).
Bathygadus multifilis Günther, Deep Sea Fishes Challenger, p. 155, pl. XLII, fig. B.; Sta. 214, South of Philippines.

Family LOPHIIDÆ.

CHIROLOPHIUS Regan.

826. **Chirolophius naresi** (Günther). Sta. 204, Philippine Islands (Günther, A); Philippines (Regan).
Lophius naresi Günther, Shore Fishes Challenger, p. 56, pl. XXV; Sta. 204, Philippine Islands.

Family ANTENNARIIDÆ.

ANTENNARIUS (Commerson) Lacépède.

827. **Antennarius hispidus** (Bloch). Manila; Cavite; Panay (Jordan & Seale, A).
 828. **Antennarius chironectes** (Lacépède). Cagayancillo (Jordan & Richardson).
 829. **Antennarius lithinostomus** Jordan & Richardson. Cuyo (Jordan & Richardson).
Antennarius lithinostomus Jordan & Richardson, Bull. U. S. Bur. Fish, XXVII, 1908, 286; Cuyo, P. I.

PTEROPHYNE Gill.

830. **Pterophyne histrio** (Linnaeus). Manila (Jordan & Seale, A).

SPECIES ATTRIBUTED TO PHILIPPINE ISLANDS.¹

[These names are given on the authority of *Palacky*, *Elera*, or *Gogorza*; see below.]

CARCHARIIDÆ.

Hypoprionodon hemiodon (Müller & Henle).

PRISTDÆ.

Pristis perotteti (Müller & Henle).

CLUPEIDÆ.

Sardinella fimbriata (Cuvier & Valenciennes).

Sardinella zunasi (Bleeker).

ENGRAULIDÆ.

Anchovia tri (Bleeker).

Anchovia rhinorhyncha (Bleeker).

ANGUILLIDÆ.

Anguilla amboinensis Peters.

LEPTOCEPHALIDÆ.

Leptocephalus conger (Linnaeus).

OPHICHTHYIDÆ.

Ophichthus apicalis (Bennett).

Pisoodonophis boro (Hamilton-Buchanan).

Chlevastes colubrinus (Bleeker).

Cirrhimuræna chinensis (Hamilton-Buchanan).

MURÆNIDÆ.

Uropterygius marmoratus (Lacépède).

SILURIDÆ.

Pseudarius falcarius (Richardson).

Pseudarius pidada (Bleeker).

Ariodes tonggol (Bleeker).

CLARIIDÆ.

Clarias melanodermus Bleeker.

Clarias macrocephalus Günther.

BELONIDÆ.

Tylosurus melanotus (Bleeker).

Tylosurus schismatorhynchus (Bleeker).

¹ In this list generic names have, when necessary, been changed to make them conform with the nomenclature of the preceding check-list.

EXOCÆTIDÆ.

- Hemiramphus commersoni* Cuvier & Valenciennes.
Hemiramphus georgii (Bleeker).
Cypselurus oligolepis (Bleeker).

MUGILIDÆ.

- Mugil subviridis* Cuvier & Valenciennes.
Liza melinoptera (Cuvier & Valenciennes).

SPHYRÆNIDÆ.

- Sphyræna commersonii* Cuvier & Valenciennes.

SYNGNATHIDÆ.

- Corythoichthys cyanospilus* (Bleeker).
Corythoichthys conspicillatus (Jenyns).

CARANGIDÆ.

- Scomberoides sanctipetri* (Cuvier & Valenciennes).
Decapterus muroadsi (Temminck & Schlegel).

TRICHIURIDÆ.

- Trichiurus savala* Bleeker.

EQUULIDÆ.

- Leiognathus nuchalis* (Temminck & Schlegel).

APOGONICHTHYIDÆ.

- Amia orbicularis* (Kuhl & Van Hasselt).
Chéilodipterus quinquelineatus (Cuvier & Valenciennes).

AMBASSIDÆ.

- Ambassis batjanensis* Bleeker.

SERRANIDÆ.

- Epinephelus celebicus* (Bleeker).

LUTIANDÆ.

- Nemipterus nematophorus* (Bleeker).
Cæcio maculatus Cuvier & Valenciennes.

THERAPONIDÆ.

- Therapon argenteus* (Cuvier & Valenciennes).
*Therapon ellipticus*¹ (Richardson).
Scolopsis bleekeri Günther.
Pentapus nemurus (Bleeker).
Plectorhynchus chætodonoides (Lacépède).

SPARIDÆ.

- Lethrinus ramak* (Forskål).
Monotaxis heterodon (Bleeker).

MULLIDÆ.

- Upeneus pleurospilos* (Bleeker).
Upeneoides moluccensis (Bleeker).

¹ Originally described from rivers of West Australia. Richardson, Erebus and Terror, p. 118.

SCIÆNIDÆ.

Pseudosciæna sina (Belanger).

POMACENTRIDÆ.

Pomacentrus chrysopæcilus Kuhl & Van Hasselt.

LABRIDÆ.

Chærodon macrodonta (Lacépède).

Chærodon leucozonus (Bleeker).

Anampses godeffroyi Günther.

Halichæres schwartzii (Bleeker).

SCARICHTHYIDÆ.

Callyodon chrysopomus (Bleeker).

SIGANIDÆ.

Siganus luridus (Rüppell).

TRIACANTHIDÆ.

Triacanthus strigilifer Cantor.

TETRAODONTIDÆ.

Sphaeroides oblongus (Bloch).

Tetraodon mappa Lesson.

Canthigaster papua (Bleeker).

BALISTIDÆ.

Balistes bursa Bloch & Schneider.

OSTRACIIDÆ.

Ostracion diaphanum Bloch & Schneider.

GOBIIDÆ.

Belobranchus belobranchus (Cuvier & Valenciennes).

Oxyeleotri marmorata (Bleeker).

Odontobutis obscura (Temminck & Schlegel).

Exyrias puntangoides (Bleeker).

Oplopomus oplopomus (Cuvier & Valenciennes).

(? *Drombus*) *baliurus* (Cuvier & Valenciennes).

Rhinogobius cyanoclavis (Cantor).

Rhinogobius chlorostigmatoides (Bleeker).

(? *Glossogobius*) *spectabilis* (Günther).

Parapocryptes nexipinnis (Cantor).

Pseudapocryptes borneensis (Bleeker).

Apocryptodon madurensis (Bleeker).

SCARPAENIDÆ.

Merinthe bandanensis (Bleeker).

Scarpænopsis diabolus (Cuvier & Valenciennes).

Sebastapistes strongius (Cuvier & Valenciennes).

Centropogon robustus Günther.

Centropogon fuscovirens (Quoy & Gaimard).

Amblyapistus tænionotus (Cuvier & Valenciennes).

SOLEIDÆ.

Cynoglossus quadrilineatus (Bleeker).

Cynoglossus brachyrhynchus (Bleeker).

TRICHONOTIDÆ.

Trichonotus setigerus (Bloch & Schneider).

LOPHIIDÆ.

Lophiomus setigerus (Vahl).

LIST OF PAPERS CONTAINING ORIGINAL RECORDS OR DESCRIPTIONS OF PHILIPPINE FISHES.

Bleeker, Pieter. Atlas ichthyologique des Indes Orientales néerlandaises, t. I-IX,
pp. 1246, pl. I-CCCCXX. Amsterdam, 1862-1877.

Philippine species recorded or described:

Anguillidæ	1
Labridæ	1

Localities represented:

Philippine Islands.
Manila.

Boulenger, George Albert (A). List of the Freshwater Fishes collected by Mr. A.
Everett on Palawan and Balabac. Annals and Magazine of Natural
History, ser. 6, XV, 1895, pp. 185-187.

Species recorded or described:

Muraenidæ	1
Cyprinidæ	3
Syngnathidæ	1
Ophicephalidæ	1
Gobiidæ	7

Localities represented:

Palawan.
Balabac.

Boulenger, George Albert (B). Catalogue of the Fishes of the British Museum.
Second edition. Vol. I. London, 1895.

Philippine species recorded or described:

Serranidæ	9
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Localities represented:

Philippine Islands.
Cebu.

Cartier, Oscar. Ein Beitrag zur Kenntniss der Fische des philippinischen Ar-
chipels. Verhandlungen der physikalisch-medicinischen Gesellschaft in
Würzburg, 1873, pp. 96-106. Würzburg, 1873.

Species recorded or described:

Pomacentridæ	9
Labridæ	9
Scarichthyidæ	2

Localities represented:

Cavite, Luzon.
Bohol.
Cebu.
Panglao.

Cuvier, Georges et Valenciennes, Achille. Histoire naturelle des poissons, t. 1-22, pp. 8337, pl. I-VIII+9-650. Paris, 1828-1846.

Philippine species recorded or described:

Siluridæ	3
Exocetidæ	1
Carangidæ	1
Equulidæ	1
Hæmulidæ	1
Ophicephalidæ	1
Anabantidæ	1
Chaetodontidæ	1

Locality represented:

Manila.

NOTE.—A majority of the above species are recorded on faith of notes or drawings of Commerson, Dussumier, or Mertens, or of "members of the Russian Expedition."

Elera, Castro de. Catálogo sistemático de toda la fauna de Filipinas. I, Vertebrados, pp. 1-701 (Pisces, pp. 454-621). Manila, 1895.

A check-list of many species, based (chiefly) on specimens preserved in the Museo de Santo Tomás de Manila; the identifications not always trustworthy.

Evermann, Barton Warren, and Seale, Alvin (A). Fishes of the Philippine Islands. Bulletin, U. S. Bureau of Fisheries, XXVI, 1906, pp. 49-110, figs. 1-22. Washington, 1907.

Species recorded or described, 296, representing 89 families and 139 genera.

Localities represented:

Luzon—

San Fabian, Province of Pangasinan.

Bacon, Province of Sorsogon.

Bulan, Province of Sorsogon.

Tarlac.

Mindanao, Zamboanga.

Sulu Archipelago, Jolo.

Evermann, Barton Warren, and Seale, Alvin (B). Fishes collected in the Philippine Islands by Maj. Edgar A. Mearns, surgeon, U. S. Army. Proceedings U. S. National Museum, XXXI, 1906, pp. 505-512, figs. 1-4. Washington, 1906.

Species recorded or described:

Chanidæ	1
Mugilidæ	2
Exocetidæ	1
Ophicephalidæ	1
Lutianidæ	1
Hæmulidæ	2
Sparidæ	2
Acanthuridæ	1
Platycephalidæ	1
Tetraodontidæ	2
Gobiidæ	2
Blenniidæ	1

Localities represented:

Luzon, Manila.

Mindanao, Caldera Bay at Zamboanga.

Siassi.

Sulu Archipelago, Jolo.

Gogorza y Gonzalez, José. Peces de las Islas Filipinas. Atlas de la Sociedad Española de Historia Natural, XIV, pp. 72-74. Madrid, 1885.¹

A check-list of many species, evidently largely a compilation; the identifications not always trustworthy.

Gogorza y Gonzalez, José. Datos para la Fauna Filipina. Anales de la Sociedad Española de Historia Natural, XVII, pp. 247-303 (pisces, pp. 281-303). Madrid, 1887.

A check-list of many species. Introduction contains a historical sketch of collecting done up to year 1887.

Günther, Albert. Catalogue of the fishes in the collections of the British Museum, Vol. I-VIII. London, 1859-1870.

Philippine species recorded or described (with the exception of about a half dozen species,² on authority of Heckel, Kaup, or Müller & Troschel; the following records based on specimens in the British Museum):

Dorosomatidæ	1
Symbranchidæ	1
Anguillidæ	1
Murænesocidæ	1
Ophichthyiidæ	2
Clariidæ	1
Plotosidæ	1
Mugilidæ	1
Centriscidæ	1
Syngnathidæ	1
Holocentridæ	1
Carangidæ	1
Equulidæ	1
Apogonichthyidæ	1
Ambassidæ	1
Serranidæ	5
Lutianidæ	1
Hæmulidæ	3
Sparidæ	2
Gerridæ	2
Mullidæ	3
Sillaginidæ	1
Pseudochromidæ	1
Ophicephalidæ	1
Anabantidæ	1
Pomacentridæ	4
Labridæ	2
Drepanidæ	1
Platacidæ	1

¹ Zool. Record, 1885, Pisc. p. 15.

² These species are credited to their original recorders in the present check-list. (J. & R.)

Chaetodontidæ	1
Acanthuridæ	2
Siganidæ	2
Triacanthidæ	1
Tetraodontidæ	5
Balistidæ	1
Diodontidæ	1
Gobiidæ	5
Scorpenidæ	1
Pteropsaridæ	1
Blenniidæ	1
Fierasferidæ	1
Brotulidæ	1
Bregmacerotidæ	1

Localities represented:

Philippine Islands.

Soolo (after Kaup;=Sulu).

Günther, Albert (A). Report on the Shore Fishes procured during the voyage of H. M. S. "Challenger" in the years 1873-1876. Voyage of H. M. S. "Challenger," Zoölogy, I, pt. VI, 82 pp., 32 pl. London, 1880.

Philippine species recorded and described:

Hemiscylliidæ	1
Murænidæ	3
Cyprinidæ	2
Equulidæ	2
Centriscidæ	1
Acropomidæ	1
Serranidæ	1
Hæmulidæ	2
Ophicephalidæ	1
Champsodontidæ	1
Ophicephalidæ	1
Labridæ	1
Monacanthidæ	2
Tetraodontidæ	2
Balistidæ	2
Diodontidæ	1
Scorpenidæ	3
Platycephalidæ	1
Pleuronectidæ	3
Soleidæ	2
Callionymidæ	2
Lophiidæ	1

Localities represented:

Luzon, Manila.

Reefs near Zebu (Cebu).

Samboangan (=Zamboanga, Mindanao).

Pasananca, near Samboangan.

Malanipa, near Samboangan.

Stations 201, 203, and 204.

Günther, Albert (B). Voyage of H. M. S. "Challenger," Zoölogy, XXII, pp. I-LXV + 335, 73 pl. London, 1887.

Philippine species recorded or described:

Alepocephalidæ	1
Malacosteidæ	1
Myctophidæ	2
Sternoptychidæ	2
Evermannellidæ	1
Halosauridæ	1
Brotulidæ	3
Macrouridæ	2

Localities represented:

Station 198, north of Celebes.
 Station 200, between Philippine Islands and Borneo.
 Station 205, off Philippines.
 Station 207, west of Philippines.
 Station 210, off Philippines.
 Station 214, south of Philippines.

Günther, Albert (C). Report on the Deep Sea Fishes collected by H. M. S. "Challenger" during the years 1873-76. Annals and Magazine of Natural History, 1872, pp. 397-399. London, 1872.

Philippine species recorded or described:

Atherinidæ	1
Sciænidæ	1
Gobiidæ	1
Cottidæ	1
Blenniidæ	1

Localities represented:

Luzon, Manila.
 Cebu.

Günther, Albert (D). Fische der Südsee. Bd. I, pp. 1-128, taf. 1-83. Journal des Museums Godeffroy, Bd. II, Hft. III. Hamburg, 1873.

Philippine species recorded or described:

Sparidæ, 1.

Locality represented:

Philippine Islands.

Heckel, Jacob. (A). Russegger's Reisen, I, 1025, 1840.

Philippine species recorded or described:

Cottidæ, 2.

Locality represented:

Philippine Islands.

Heckel, Jacob. (B). Ann. Wiener Mus. II, 160, 1840 (Günther, Cat. II, 169) or 1837 (Agassiz, Nomenclator Zoolog., *Trachidermus*; Pisc.).

Philippine species recorded or described:

Cottidæ, 1.

Locality represented:

Philippine Islands.

Jordan, David Starr, and Richardson, Robert Earl. List of Fishes Collected in the Philippines by Richard Crittenden McGregor. Bulletin U. S. Bureau of Fisheries, XXVII, pp. 233-287, figs. 1-12. Washington, 1908.

Localities represented:

Calayan.
Fuga.
Luzon—
Aparri.
Manila.
Ticao.
Lubang.
Mindoro.
Sibuyan.
Romblon.
Cuyo.

Jordan, David Starr, and Seale, Alvin (A). Fishes of the Islands of Luzon and Panay. Bulletin U. S. Bureau of Fisheries, XXVI, 1906, pp. 1-48, figs. 1-20. Washington, 1907.

Descriptive list of 239 species.

Localities represented:

Luzon—
Manila.
Cavite.
Panay, Iloilo.

Jordan, David Starr, and Seale, Alvin (B). List of Fishes collected by Dr. Bashford Dean on the Island of Negros, Philippines. Proceedings U. S. National Museum, XXVIII, pp. 769-803, figs. 1-20. Washington, 1905.

Contains records or descriptions of 114 species.

Locality represented:

Negros.

Jordan, David Starr, and Snyder, John Otterbein. Description of three new species of fishes from Formosa, Bulletin Carnegie Museum, 1908, IV, No. 2. (Two of these species recorded from Cavite.

Kaup, J. J. Wiegmann's Archiv. 1858, p. 93.¹

Philippine species recorded or described:

Brotulidæ, 1.

Locality represented:

Island of Soolo (=Sulu).

Kner, Rudolf. Reise der österreichischen Fregatte Novara um die Erde in den Jahren 1857, 1858, 1859. Zoologischer Theil, Bd. I, Fische, 1, 2, und 3 Abtheilung, pp. 1-433, taf. I-xvi. Wien, 1865-1867.

Philippine species recorded or described:

Clupeidæ	1
Murænidæ	1
Mugilidæ	1
Holocentridæ	1
Scombridæ	2
Carangidæ	1
Trichiuridæ	1

¹ Fide Günther, Cat. IV, 376.

Equulidæ	1
Serranidæ	1
Lutianidæ	1
Hæmulidæ	2
Sparidæ	2
Sciænidæ	1
Sillaginidæ	1
Ophiocephalidæ	1
Scarichthyidæ	1
Siganidæ	1
Gobiidæ	1
Scorpenidæ	1
Soleidæ	1

Locality represented:

Manila.

Lacépède, Bernhard Germain Etienne. Histoire naturelle des poissons. Tomes 5
Paris, 1798-1803.

Philippine species recorded or described:

Aulostomidæ, 1.

Locality represented:

Philippine Islands.

Müller, Johannes. Abhandl. Berl. Akad., 1843, 153, 154.¹

Philippine species recorded or described:

Fierasferidæ, 1.

Locality represented:

Philippine Islands.

Müller, Johannes und Troschel, F. H. Horae Ichthyologicae. Berlin, 1845-1849.

Philippine species recorded or described:

Serranidæ 1

Pseudochromidæ 1

Localities represented:

Philippine Islands.

Manila.

Palacky, J. Die Verbeitung der Fische. Zweite Auflage, pp. 1-239, Prag, 1895.

Contains (pp. 228-230) a list of many species, apparently compiled
from authors for the most part, and not wholly trustworthy.

Peters, Wilhelm (A). Über lebendig gebärende Arten der Fischgattung *Hemiramphus*. Monatsberichte der Königlichen Akademie der Wissenschaften zu Berlin, 1865, pp. 132 and 133.

Philippine species recorded or described:

Exocetidæ, 1.

Locality represented:

Samar.

Peters, Wilhelm (B). Monatsberichte der Königl. Akademie der Wissenschaften zu Berlin, 1866, p. 96.

Philippine species recorded or described:

Hæmulidæ, 1

Locality represented:

Manila.

¹ Fide Günther, Cat. IV, 384.

Peters, Wilhelm (C). Über die von Hrn. Dr. F. Jäger in dem ostindischen Archipel gesammelten und dem Königlischen Zoologischen Museum übergebenen Fische. Monatsberichte der Königl. Akademie der Wissenschaften zu Berlin, 1868, pp. 254-281.

Philippine species recorded or described:

Elopidae	1
Symbranchidae	1
Anguillidae	1
Leptocephalidae	1
Moringuidae	1
Muraenidae	3
Clariidae	2
Exocoetidae	1
Mugilidae	1
Syngnathidae	5
Apogonichthyidae	2
Ambassidae	1
Kuhliidae	1
Serranidae	1
Hemulidae	2
Sparidae	1
Gerridae	1
Ophiocephalidae	1
Anabantidae	1
Pomacentridae	3
Labridae	2
Toxotidae	1
Ephippidae	1
Chaetodontidae	1
Triacanthidae	1
Diodontidae	1
Gobiidae	13
Callionymidae	1
Blenniidae	4

Localities represented:

Luzon.
Masbate.
Samar.
Leyte.

Peters, Wilhelm (D). Monatsberichte der Königl. Akademie der Wissenschaften zu Berlin, 1869, p. 705.

In this paper a new name is proposed for *Therapon brevispinus* Peters, 1868, from Luzon, preoccupied. (See Peters, C.)

Procé, Marion de. Sur plusieurs espèces nouvelles des poissons et des crustacés observées par M. Marion de Procé. Bulletin des Sciences par la Société Philomathique de Paris, 1822, pp. 129-134.

Philippine species recorded or described:

Tetraodontidae, 3.

Locality represented:

Manila.

Regan, C. Tate. A Revision of the Fishes of the Family Lophiidae. Annals and Magazine of Natural History. Ser. 7, XI, 1903, pp. 277-285.

Philippine species recorded or described:

Lophiidae, 1.

Locality represented:

Philippine Islands.

Richardson, Sir John (A). The Zoölogy of the Voyage of H. M. S. Erebus and Terror. Fishes, pp. 1-139, pls. 60. London, 1844-1848.

Philippine species recorded or described:

Murænesocidæ 1

Ophichthyidæ 1

Locality represented:

Philippine Islands.

Richardson, Sir John (B). Report on the Ichthyology of the Seas of China and Japan. Report of British Association for the Advancement of Science for 1845, pp. 187-326. London, 1846.

Philippine species recorded or described:

Syngnathidæ, 1.

Locality represented:

Philippine Islands.

Sauvage, H. E. (A). Nouvelles Archives du Museum d' Histoire Naturelle (2me serie), I, 1878, p. 156.

Philippine species recorded or described:

Triglidæ, 1.

Locality represented:

Manila.

Sauvage, H. E. (B). Bulletin de la Societe Philomathique de Paris, (7) IV, 1880 pp. 54 and 219.

Philippine species recorded or described:

Gobiidæ 1

Blenniidæ 2

Locality represented:

Luzon.

Manila.

Seale, Alvin, and Bean, Barton A. On a collection of fishes from the Philippine Islands, made by Maj. Edgar A. Mearns, surgeon, U. S. Army, with descriptions of seven new species. Proc. U. S. N. M., XXXIII 1907, pp. 229-248. 131 species from Zamboanga in Mindanao, 7 of them new.

Smith, Hugh M. Notes on five food fishes of Lake Buhi, Luzon, Philippine Islands. Bulletin U. S. Fish Commission, XXI, 1901, pp. 167-171, 3 figs.

Species recorded or described:

Exocetidæ 1

Anabantidæ 1

Ophiocephalidæ 1

Gobiidæ 2

Locality represented:

Lake Buhi, Province Camarines Sur, Luzon.

Smith, Hugh M., and Seale, Alvin. Notes on a collection of fishes from the Island of Mindanao, Philippine Archipelago, with descriptions of new genera and species. Proceedings Biological Society of Washington, XIX, 1906, pp. 73-82, 5 figs.

Species recorded or described:

Chirocentridæ 1

Dorosomatidæ 1

Engraulidæ 1

Clariidæ 1

Syngnathidæ 1

Mugilidæ 1

Sphyrænidæ	1
Carangidæ	4
Equulidæ	3
Ambassidæ	1
Serranidæ	1
Lutianidæ	2
Hæmulidæ	2
Mullidæ	1
Ephippidæ	1
Tetraodontidæ	1
Anabantidæ	1
Ophiocephalidæ	1
Gobiidæ	5
Soleidæ	1

Locality represented:

Rio Grande, Mindanao.

Steindachner, Franz (A). Ueber eine neue *Cristiceps* Art, von den Philippinen, Archivio per la Zoologia, Vol. III, fasc. I, 1864, pp. 199-200.

Species recorded or described:

Blenniidæ, 1.

Locality represented:

Philippines Islands.

Steindachner, Franz (B). Ueber eine neue Gobijs-Art von den Philippinen Ichthyologische Notizen (V), Sitzungsberichte der Mathematisch-naturwissenschaftlichen Classe der Kaiserlichen Akademie der Wissenschaften. Wien, 1867, I Abth., p. 715.

Species recorded or described:

Gobiidæ, 1.

Locality represented:

Philippine Islands.

Steindachner, Franz (C). Ichthyologische Beiträge, XVI. Sitzungsberichte der mathematisch-naturwissenschaftlichen Classe der Kaiserlichen Akademie der Wissenschaften. CII, 1893, p. 230. Wien.

Philippine species recorded or described:

Gobiidæ, 1.

Locality represented:

Philippine Islands.

Vaillant, Léon. Nouvelles Archives du Muséum d'histoire naturelle. (3 serie) V, 1893, p. 57.

Philippine species recorded:

Apogonichthyidæ	1
Serranidæ	1
Pomacentridæ	1
Labridæ	2
Toxotidæ	1
Chætodontidæ	2
Monacanthidæ	2
Labridæ	1

Locality represented:

Palawan.

LIST OF LOCALITIES IN PHILIPPINE ARCHIPELAGO.

Fishes have been recorded from the following localities by the authors named in the preceding bibliography (omitting Elera, Gogorza, and Palacky). The arrangement of the islands and provinces is from north to south, as far as possible.

PHILIPPINE ISLANDS (Bleeker; Boulenger, B; Günther; Günther, D; Heckel, A & B; Lacépède; Müller; Müller & Troschel; Regan; Richardson, A & B; Steindachner, A? B? & C).

1. *Calayan* (Jordan & Richardson; McGregor Collection).

2. *Fuga* (Jordan & Richardson).

3. *Luzon* (Peters, A & C; Sauvage, B).

Province of Cagayan:

Aparri (Jordan & Richardson).

Province of Pangasinan:

San Fabian (Evermann & Seale, A).

Province of Tarlac:

Tarlac (Evermann & Seale, A).

Province of Bulacan:

Calumpit (Peters, C).

Province of Cavite:

Manila (Bleeker; Cuvier & Valenciennes; Evermann & Seale, B; Günther; Günther, A & C; Jordan & Seale, A; Jordan & Richardson; Kner; Müller & Troschel; Peters, B; Procé; Sauvage, A & B).

Cavite (Cartier; Jordan & Seale, A).

Province of Camarines Norte:

Lake Batu (Peters, C).

Province of Camarines Sur:

Lake Batu (Peters, C).

Lake Buhi (Smith).

Lebmann River (Peters, C).

Coral reef at Mambulao¹ (Peters, C).

Province of Albay:

Legaspi (Peters, C).

Tibi (Peters, C).

Yassot River (Peters, C).

Province of Sorsogon:

Bacon (Evermann & Seale, A).

Bulan (Evermann & Seale, A).

¹ On map, Century Atlas, Mambulao appears to be in Camarines Norte, but is not so stated by Peters.

4. *Ticao* (Jordan & Richardson).
5. *Lubang* (Jordan & Richardson).
6. *Mindoro* (Jordan & Richardson).
7. *Sibuyan* (Jordan & Richardson).
8. *Romblon* (Jordan & Richardson).
9. *Panay*:
 - Iloilo (Jordan & Seale, A).
10. *Cuyo* (Jordan & Richardson).
11. *Negros* (Jordan & Seale, B).
12. *Cagayancillo* (Jordan & Richardson).
13. *Bohol* (Cartier).
- 13 (b). *Panglao* (Cartier).
14. *Cebu*¹ (Boulenger, B; Cartier; Günther; Günther, A & C).
15. *Masbate* (Peters, C):
 - Between Masbate and Luzon (Peters, C).
16. *Samar* (Peters, A & C):
 - Loquilocum (Peters, C).
 - Lauang (Peters, C).
 - Coral reef east of Lauang (Peters, C).
 - Catbalogan (Peters, C).
 - Basey River at Calbigan (Peters, C).
 - Calbigan River (Peters, C).
17. *Leyte* (Peters, C):
 - Tacloban (Peters, C).
 - Barauen River (Peters, C).
 - Lake Bito (Peters, C).
18. *Mindanao*:
 - Zamboanga² (Günther, A; Evermann & Seale).
 - Zamboanga (Seale and Bean).
 - Caldera Bay at Zamboanga (Evermann & Seale, A).
 - Pasananca, near Zamboanga (Günther, A).
 - Malanipa, near Zamboanga (Günther, A).
 - Rio Grande at Cotabato (Smith & Seale).
19. *Palawan* (Boulenger, A; Vaillant).
20. *Balabac* (Boulenger, A).
21. *Sulu Archipelago*:
 - Jolo (Evermann & Seale, A & B).
 - Siassi (Evermann & Seale, B).
 - Sulu³ (Kaup).
 - Sulu Sea (Günther, after Kaup).

¹ Spelled Zebu.² Spelled Samboangan.³ Spelled Soolo.

INDEX TO ESTABLISHED GENERA.

	Page.		Page.
Abudefduf	35	Calotomus	39
Acanthonus	58	Cantherines	44
Acanthocephala	34	Canthigaster	45
Acropoma	25	Caragobius	51
Æoliscus	16	Caranx	20
Æschrichthys	15	Centriscus	16
Alectis	21	Centrogenys	26
Alticus	56	Cephalopholis	25
Alutera	44	Chætodon	41
Amate	54	Champsodon	34
Ambassis	24	Chanos	6
Amblyapistus	52	Cheilinus	39
Amblygaster	6	Cheilio	38
Amblygobius	49	Chelmon	41
Amia	23	Chelonodon	45
Amphiprion	35	Chiloseyllium	5
Ampheces	37	Chilomycterus	45
Anabas	34	Chirocentrus	6
Anchovia	7	Chirolophius	58
Anguilla	9	Chærodon	36
Anodontostoma	7	Cirrhimuraena	10
Antennarius	58	Clarias	13
Aparrius	50	Cæcula	10
Apolectus	21	Cælonotus	17
Apogonichthys	24	Colocopus	42
Archamia	24	Congrogadus	57
Atherina	15	Corythoichthys	17
Awaous	49	Coryzichthys	55
Balistes	43	Creisson	48
Balistapus	43	Cristiceps	56
Barbodes	12	Cromileptes	26
Bathygadus	58	Ctenochætus	42
Bathyonus	58	Cynoglossus	55
Bathytroctes	7	Cypselurus	14
Blennius	56	Dactylopus	55
Bostrychus	45	Dampreria	33
Bregmaceros	58	Dangila	12
Brotulophis	57	Dasyatis	5
Butis	46	Dascyllus	36
Cæcio	28	Decapterus	19
Callionymus	55	Decterias	52
Calliurichthys	55	Dermatogenys	14
Callyodon	39	Dinematichthys	57

	Page.		Page.
Diodon	45	Holocentrus	18
Doryichthys	17	Hypleurochilus	56
Doryrhamphus	17	Hypomacrus	52
Drepane	40	Hypseleotris	46
Drombus	47	Illana	49
Dussumieria	6	Ilisha	7
Duymæria	37	Johnius	33
Ebisinus	53	Konosirus	7
Echidna	11	Kuhlia	25
Echeneis	51	Kyphosus	31
Elates	53	Labroides	37
Eleotris	45	Lactarius	19
Eleria	19	Lampadena	8
Eleutheronema	16	Lates	25
Elops	5	Leiognathus	21
Emmelichthys	31	Leiuranus	10
Encheliophis	57	Lepidaplois	37
Enneapterygius	56	Lepidotrigla	53
Epinephelus	25	Leptocephalus	9
Equula	22	Lethrinella	30
Euelatichthys	30	Lethrinus	31
Euthynnus	19	Lioscorpius	51
Exyrias	49	Liza	15
Fierasfer	57	Lo	43
Fistularia	16	Lutianus	27
Fowleria	24	Malacosteus	8
Gasterotokeus	17	Mapo	48
Gazza	22	Megalaspis	19
Glossogobius	48	Megalops	6
Gnathanodon	21	Mene	22
Gnatholepis	47	Merinthe	51
Gnathypops	34	Microbuglosus	54
Gobiichthys	50	Microphis	17
Gobioides	51	Mionorus	24
Gobiosoma	50	Mistichthys	48
Gobius	48	Monacanthus	44
Gonochætodon	41	Monoceros	42
Grammistes	26	Monodactylus	40
Gymnocranius	28	Moringua	10
Gymnothorax	11	Mugil	15
Halichæres	37	Mulloidés	32
Halosaurus	8	Murænesox	9
Hapalogenys	30	Murænichthys	9
Helotes	29	Myctophum	8
Hemipimelodus	13	Myripristis	18
Hemipteronotus	39	Nannobranchium	8
Hemiramphus	14	Nematabramis	12
Heniochus	41	Nemipterus	28
Hepatus	42	Neobythites	57
Himantura	5	Nesogrammus	19
Hippocampus	17	Netuma	13
Holacanthus	41	Nippon	25

	Page.		Page.
Novaculichthys	39	Rita	13
Odontobutis	46	Rhinogobius	47
Omosudis	8	Rhyacichthys	56
Oplopomus	47	Rhynchobatus	5
Ophicephalus	34	Ruppellia	47
Ophichthus	9	Salarias	56
Ophiocara	46	Sardinella	5
Osbeckia	44	Saurida	7
Ostracion	45	Scaops	54
Otolithes	33	Scarichthys	39
Oxyurichthus	50	Scartelaos	47
Paracentropogon	52	Scatophagus	40
Parachætodon	41	Scoliodon	5
Parapegasus	18	Scolopsis	29
Parapercis	55	Scomber	18
Pardachirus	54	Scomberoides	19
Parexocætus	14	Scomberomorus	19
Pegasus	18	Scorpænopsis	52
Pempheris	23	Sebastapistes	52
Pentaprion	32	Sebastopsis	51
Pentapus	30	Seriola	19
Periophthalmus	46	Sicyopterus	51
Periophthalmodon	47	Siganus	42
Petroscirtes	57	Sillago	33
Pharopteryx	27	Siphostoma	16
Pinjalo	28	Soleichthys	54
Pisoodonophis	10	Sparus	31
Platax	40	Spheroides	44
Platophrys	54	Sphyræna	15
Platycephalus	53	Sphyrna	5
PlatyGLOSSUS	37	Spilotichthys	30
Plectorhynchus	30	Sternoptyx	8
Plotosus	13	Stethojulis	37
Polydactylus	16	Stoasodon	5
Polyipnus	8	Stolephorus	6
Pomacentrus	35	Symbranchus	9
Pomadasis	29	Synancera	52
Premnas	34	Synaptura	55
Priacanthus	27	Synchiropus	55
Priopis	24	Synodus	7
Psammoperca	26	Tachysurus	13
Psettodes	53	Tæniura	5
Pseudamia	24	Tetraodon	44
Pseudochromis	33	Tetraroge	52
Pseudodax	39	Thalassoma	38
Pseudoscæna	33	Thalliurus	39
Pseudorhombus	54	Therapon	29
Pterois	52	Thysanophrys	53
Pterophryne	58	Toxotes	40
Rachycentron	21	Trachinocephalus	7
Rasbora	12	Trachinotus	21
Rastrelliger	18	Trachonurus	58

	Page.		Page.
Trachurops	20	Uroconger	9
Trachydermus	53	Uropterygius	12
Triacanthus	43	Valenciennesa	45
Trichiurus	21	Variola	25
Trypauchenichthys	51	Vespacula	52
Tylosurus	13	Xystæma	31
Ulua	21	Zanclus	42
Umbrina	33	Zembrasoma	42
Upeneus	32	Zenarchopterus	14
Upenoides	32	Zonogobius	48



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